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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do

FAA, Aeronautical Information Services, ATO-R, Rm. 626

800 Independence Ave., SW

Washington, DC 20591

Telephone 1-866-295-8236 Fax 202-267-5322

Email 9-ATOR-HO-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10

^{*}Including changes to preferred routes and graphic depictions on charts.

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Frequently asked questions (FAQs) are answered on our web site at www.naco.faa.gov. See the FAQs prior to contact via toll free number.

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Email 9-AMC-Chartsales@faa.gov

Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—''req'' may mean ''request", ''requesting'', ''requested'', or ''requests'').

AAF	Army Air Field	byd	beyond
AB	Airbase	c	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control	CGAS	Coast Guard Air Station
	Center	CIV	Civil
acft	aircraft	clsd	closed
ADCC	Air Defense Control Center	comd	command
AER	approach end rwy	CONUS	Continental United States
AFB	Air Force Base	CSTMS	Customs
AFHP	Air Force Heliport	ctc	contact
afld	airfield	ctl	control
AFOD	US Army Flight Operations Detachment	dalgt	daylight
AFRC	Armed Forces Reserve Center/Air Force	Dec	December
	Reserve Command	DIAP	DoD Instrument Approach Procedure
AFSS	Automated Flight Service Station	DoD	Department of Defense
AG	Agriculture	DSN	Defense Switching Network (Telephone)
A-GEAR	Arresting Gear	dsplcd	displaced
AGL	above ground level	durn	duration
AHP	Army heliport	eff	effective
ALS	Approach Light System	emerg	emergency
alt	altitude	EOR	End of Runway
AMC	Air Mobility Command	ETA	Estimated Time of Arrival
ANGS	Air National Guard Station	ETD	Estimated Time of Departure
apch	approach	exc	except
Apr	April	extd	extend
APU	Auxiliary Power Unit	FB0	fixed-base operator
ARB	Air Reserve Base	Feb	February
arpt	airport	fld	field
ARS	Air Reserve Station	FLIP	Flight Information Publication
AS	Air Station	flt	flight
ASDE-X	Airport Surface Detection Equipment—	flw	follow
	Model X	Fri	Friday
ASU	Aircraft Starting Unit	FSS	Flight Service Station
ATC	Air Traffic Control	GA	glide angle
Aug	August	GCA	Ground Controlled Approach
AUW	All Up Weight (gross weight)	GS	glide slope
avbl	available	haz	hazard
bcn	beacon	HQ	Headquarters
blo	below		

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

hr hour non precision instrument ΙΔΡ Instrument Approach Procedure NS ABTMT Noise Abatement ICAC International Civil Aviation Organization NSTD nonstandard IFR Instrument Flight Rules ntc notice ILS Instrument Landing System obsn observation IM Inner Marker Oct October IMG Immigration OI F Outlying Field

incr increase onr operate, operator, operational

indet indefinite ons operations intensity OTS out of service ints invof in the vicinity of ovrn overrun

lan

personnel and equipment working IMC Instrument Meteorological Conditions PAFW

nat

pattern Jet Aircraft Starting Unit IASI p-line power line JOAP Joint Oil Analysis Program **PMSV** Pilot-to-Metro Service Joint Operational Support Airlift Center PΩI

IOSAC Petrol, Oils and Lubricants IRB Joint Reserve Base PPR prior permission required Jul July PRM Precision Runway Monitoring Jun June PTD Pilot to Dispatcher

Κt Knots RAMCC Regional Air Movement Control Center

LAA Local Airport Advisory rea request LAHSO Land and Hold Short Operations rgt tfc right traffic RON Remain Overnight lhs nounds ldg landing rar require lighted rstd lgtd restricted

RSRS løts lights reduced same runway separation

LMM Compass locator at Middle Marker ILS rw/v/ runway LOC Localizer Sat Saturday

LOM Compass locator at Outer Marker ILS SFLE Strategic Expeditionary Landing Field

limited Sen Itd September

MACC Military Area Control Center SFA Single Frequency Approach March efe Mar

surface SFRA

MCAF Marine Corps Air Facility Special Flight Rules Area SOAP MCALE

Marine Corps Auxiliary Landing Field Spectrometric Oil Analysis Program SOF

Supervisor of Flying MCAS Marine Corps Air Station Marine Corps Base SPR MCB Seaplane Base SP med medium sunrise

SS METRO Pilot-to-Metro voice call sunset Mil military std standard min minute Sur Sunday MLS Microwave Landing System SVC service MM Middle Marker of ILS tfc traffic Mon Monday thld threshold MP Maintenance Period Thu Thursday MSI mean sea level tkf take-off tmnrv temporary

MSAW minimum safe altitude warning NAAS Naval Auxiliary Air Station tran transient NADC Naval Air Development Center Tue Tuesday NADER Naval Air Depot twr tower Naval Air Engineering Center NAEC twv taxiway

NAFS Naval Air Engineering Station UC **Under Construction** Naval Air Facility USA United States Army NAF NALCO Naval Air Logistics Control Office USAF United States Air Force USCG NALO Navy Air Logistics Office United States Coast Guard NALE Naval Auxiliary Landing Field USN United States Navy

NAS Naval Air Station Defense Switching Network (telephone,

NAWC Naval Air Warfare Center formerly AUTOVON) NAWS Naval Air Weapons Station VFR Visual Flight Rules VIP night Very Important Person ngt

NOLF Naval Outlying Field VMC Visual Meteorological Conditions

Nov November Wed Wednesday wx weather

SAMPI F CITY NAME AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93′ W99°20.20′ JACKSONVILLE S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV. ARFF Index A NOTAM FILE ORL Not insp. H-4G I-19C (19) (20) IAP. DIAP. AD (11)(12)(13)(14)(15)(16)(18)(21) RWY 18-36: H12004X200 (ASPH-CONC-GRVD) 9 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL RWY 18: LDIN, MALSF, TDZL, REIL, PAPI(P2R)-GA 3.0° TCH 36'. Rwy 173-353: 3515 X 150 Thid dspicd 300'. Trees. Rgt tfc. 0.3% up. RWY 36: ALSF1. 0.4% down. 81 Č ä RWY 09-27: H6000X150 (ASPH) MIRL G G 000 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T 113 LAND AND HOLD SHORT OPERATIONS Ø €3 DIST AVRI HOLD SHORT POINT LANDING Ø C3 €3 €3 **RWY 18** 09-27 6500 2004 X **RWY 36** 09-27 5400 8 RUNWAY DECLARED DISTANCE INFORMATION 353 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504 q١ RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704 6000 X 150 ARRESTING GEAR/SYSTEM RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650') BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36 MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on JASU 3(AM32A-60) 2(A/M32A-86) apch end. 33 36 (24) (25)→ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← (10) OIL 0-128 TRAN ALERT Avbl 1300-0200Z‡, svc limited weekends. 27 (28 AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z‡. Parachute Jumping, Deer invof arpt, Heavy jumbo jet training surface to 9000', Twy A clsd indef, Flight Notification Service (ADCUS) avbl. (30) MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15 minutes prior to Idg and after dep. Limited tran parking. (31) WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS. COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2 NAME FSS (ORL) on arpt. 123.65 122.65 122.2 NAME RC0 112.2T 112.1R (NAME RADIO) R NAME APP/DEP CON 128.35 257.725 (1200-0400Z‡) TOWER 119.65 255.6 (1200-0400Z‡) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) **CLNC DEL** 125.55 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257 5 (33)→ AIRSPACE: CLASS B See VFR Terminal Area Chart. RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS. Chan 59 N28°32.55' W81°20.12' (H) VORTAC 112.2 MCO at fld. (H) TACAN Chan 29 CBU (109.2) N28°32.65′ W81°21.12′ at fld. 1115/8E. HERNY NDB (LOM) 221 OR N28°37.40′ W81°21.05′ 177° 5.4 NM to fld. ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB

ASR/PAR (1200-0400Z‡) COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH) HELIPAD H2: H60X60 (ASPH)

HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)

WATERWAY 15-33: 5000X425 (WATER)

SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of arpt not visible from twr and are required to ctc twr.

is considered equivalent to World Geodetic System 1984 (WGS 84).

All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes

10 SKETC	H LEGEND
runways/landing areas	radio aids to navigation
Hard Surfaced	VORTAC
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Landing Tee ⊢
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	ADDDOACH HOHTING CVCTFAAC
MISCELLANEOUS BASE AND CULTURAL FEATURES	APPROACH LIGHTING SYSTEMS A dot " • " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) V indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	A Approach Lighting System ALSF-2
Towers	Approach Lighting System ALSF-1
Tanks	SALS/SALSF
Oil Well	Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS
Smoke Stack	Medium Intensity Approach Lighting System (MALSR) and RAII
0bstruction	System (MALSR) and RAIL
Controlling Obstruction	D Navy Parallel Row and Cross Bar
ପି ଉ,ସି ଉ, Trees	† Air Force Overrun
Populated Places	Standard Threshold Clearance provided Pulsating Visual Approach Slope Indicator (PVASI)
Cuts and Fills Cut	Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	Tri-color Visual Approach Slope Indicator (TRCV)
Ditch	(APAP)
Hill	P Precision Approach Path Indicator (PAPI)

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases, Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

1 CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

2 ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

(3) LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

(4) OPERATING AGENCY

Α

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

MC

Marine Corps

AFRC Air Force Reserve Command N Navv US Air Force Naval Air Facility ΔF NAF ANG Air National Guard NAS Naval Air Station AR US Army Reserve NASA National Air and Space Administration

ARNG US Army National Guard P US Civil Airport Wherein Permit Covers
CG US Coast Guard Use by Transient Military Aircraft
CIV/MIL Joint Use Civil/Military PVT Private Use Only (Closed to the Public)

DND Department of National Defense Canada

US Army

(5) AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

(6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

(11) ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

(12) ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

(13) SERVICING—CIVIL

S1:	Minor airframe repairs.	S5:	Major airframe repairs.
S2:	Minor airframe and minor powerplant repairs.	S6:	Minor airframe and major powerplant repairs.
S3:	Major airframe and minor powerplant repairs.	S7:	Major powerplant repairs.
S4:	Major airframe and major powerplant repairs.	S8:	Minor powerplant repairs.
\sim			

(14) FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP**
100	Grade 100 gasoline (Green)		minus 50° C.
100LL	100LL gasoline (low lead) (Blue)	J4 (JP4)	(JP-4 military specification) FP** minus
115	Grade 115 gasoline (115/145 military		58° C.
	specification) (Purple)	J5 (JP5)	(JP-5 military specification) Kerosene with
A	Jet A, Kerosene, without FS-II*, FP** minus		FS-11, FP** minus 46°C.
	40° C.	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene
A+	Jet A, Kerosene, with FS-II*, FP** minus		with FS-II*, FP** minus 47°C.
	40°C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene
A1	Jet A-1, Kerosene, without FS-II*, FP**		with FS-II*, FP** minus 47°C, with-fuel
	minus 47°C.		additive package that improves thermo
A1+	Jet A-1, Kerosene with FS-II*, FP** minus		stability characteristics of JP-8.
	47° C.	J	(Jet Fuel Type Unknown)
В	Jet B, Wide-cut, turbine fuel without FS-II*,	MOGAS	Automobile gasoline which is to be used
	FP** minus 50° C.		as aircraft fuel.

^{*(}Fuel System Icing Inhibitor)

NOTE: Certa

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

OX 1 High Pressure OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

^{**(}Freeze Point)

AIRPORT OF ENTRY. LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT-Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	Х			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	Х	Х		Х
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	Х	Х	Х	

14 CFR-PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
А	1	<90′	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H₂O
В	1 or 2	≥90′, <126′	≥5	Index A + 1500 gal H ₂ O
		≥126′, <159′	<5	
С	2 or 3	≥126′, <159′	≥5	Index A + 3000 gal H ₂ O
		≥159′, <200′	<5	
D	3	≥159′, <200′		Index A + 4000 gal H ₂ O
		>200′	<5	
Е	3	≥200′	≥5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O-Water; DC-Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd .-- indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.



(19) NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1–800–WX–BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault | strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	28	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757,
		KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type
		landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body
		gear type landing gear (A340–600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double
		tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing
		gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination
		landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available or all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:

 - F Flexible
- (3) The pavement subgrade category:
 - A High
 - B Medium
 - C Low
 - D Ultra-low

- $\begin{tabular}{ll} (4) The maximum tire pressure authorized for the pavement: \\ \end{tabular}$
 - W High, no limit
 - X Medium, limited to 217 psi
 - Y Low, limited to 145 psi
 - Z Very low, limited to 73 psi
- (5) Pavement evaluation method:T Technical evaluation
 - U By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

LDIN-Lead-In Lighting System.

MALS-Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS-Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS-Optical Landing System.

WAVE-OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, us	ed for alignme	ent of approach path.					
PNIL APAP on left side of runway	PNIR	APAP on right side of runway					
PAPI—Precision Approach Path Indicator							
P2L 2-identical light units placed on left side of	P4L	4-identical light units placed on left side of					
runway		runway					
P2R 2-identical light units placed on right side of	P4R	4-identical light units placed on right side of					
runway		runway					
PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.							
PSIL PVASI on left side of runway	PSIR	PVASI on right side of runway					
SAVASI—Simplified Abbreviated Visual Approach Slope Indicato	r						

S2R

2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

2-box SAVASI on left side of runway

S2L

IZan Milia

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visua	al Approach Slope Indicator		
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up, RWY 21: Pole. Rgt ffc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

(22) ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

12

TYPE DESCRIPTION

BAK-9 Rotary friction brake.

BAK-12A Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary

friction brake.

BAK-12B Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary

friction brake.

E28 Rotary Hydraulic (Water Brake).
M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14 A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to five seconds to fully raise the cable.)

H A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT

44B–3H Rotary Hydraulic) (Water Brake)

CHAG Chain E-5

UNI-DIRECTIONAL BARRIER

TYPE DESCRIPTION

MA-1A Web barrier between stanchions attached to a chain energy absorber.

BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE DESCRIPTION

EMAS Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35–1–7.)

ELECTRICAL STARTING UNITS:

A/M32A-86 AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire

DC: 28v, 1500 amp, 72 kw (with TR pack)

MC-1A AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

DC: 28v, 500 amp, 14 kw

MD-3 AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3A AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3M AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 500 amp, 15 kw

AC: 120/208y, 400 cycle, 3 phase, 62.5 kya, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120y, MD-4 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5

kva. 0.8 pf. 520 amp. 2 wire

AIR STARTING UNITS

ΔM32-95 150 + -5 lb/min (2055 + -68 cfm) at 51 + -2 psiaAM32A-95 150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)

LASS 150 +/- 5 lb/min @ 49 +/- 2 psia

MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press

MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia

MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen

DC: 28v, 700 amp

AIR: 60 lb/min @ 40 psig @ sea level

AM32A-60* AIR: 120 + - 4 lb/min (1644 + - 55 cfm) at 49 + - 2 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva

DC: 28v, 500 amp, 15 kw

AIR: 150 + -5 lb/min (2055 + -68) cfm at 51 + -9 psia ΔM324-604

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v. 200 amp. 5.6 kw

AM32A-60B* AIR: 130 lb/min, 50 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN IASU

FLECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;

AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz. NC-10A/A1/B/C DC: 750 amp constant, 1000 amp intermittent, 28v:

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

30 kva.

JASU (ARMY)

28v, 7.5 kw, 280 amp. 59R2-1R

ELECTRICAL STARTING UNITS (DND):

CF12 AC 115/200v, 140 kva, 400 Hz, 3 phase CF13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp CF15 DC 22-35v, 500 amp continuous 1100 amp intermittent CF16 DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AIR STARTING UNITS (DND):

ASA 45.5 psig, 116.4 lb/min COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp CEA1

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

DC 28v/10kw

AIR STARTING UNITS (OTHER):

40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B) Α4

MA-1 150 Air HP, 115 lb/min 50 psia MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF



Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

CODE

ADI Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.

W Water Thrust Augmentation—Jet Aircraft.

WAI Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.

SP Single Point Refueling.

PRESAIR Air Compressors rated 3,000 PSI or more.

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX Low pressure oxygen servicing.
HPOX High pressure oxygen servicing.
LHOX Low and high pressure oxygen servicing.

LOX Liquid oxygen servicing.

OXRB Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

LPOXRB Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

LPNIT — Low pressure nitrogen servicing.

HPNIT — High pressure nitrogen servicing.

LHNIT — Low and high pressure nitrogen servicing

(27) OIL—MILITARY

US AVIATION OILS (MIL SPECS):

 CODE
 GRADE, TYPE

 0-113
 1065, Reciprocating Engine Oil (MIL-L-6082)

 0-117
 1100, Reciprocating Engine Oil (MIL-L-6082)

 0-117+
 1100, 0-117 plus cyclohexanone (MIL-L-6082)

 0-123
 1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)

 0-128
 1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)

0–132 1005, Jet Engine Oil (MIL–L–6081) 0–133 1010, Jet Engine Oil (MIL–L–6081)

0-147 None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic 0-148 None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil

0-149 None, Aircraft Turbine Engine Synthetic, 7.5c St 0-155 None, MIL-L-6086C, Aircraft, Medium Grade

0-156 None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.

(JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

(29) AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircraws and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11–204, AR 95–27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11–213, AR 95–11, OPNAVINST 3722–8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31) WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS-Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2-reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.



Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/LINICOM 122.8.

The FSS telephone nationwide is toll free 1–800–WX–BRIEF (1–800–992–7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122–126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol (R) indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol (R) indicates radar departure control.

CLNC DEL-Clearance Delivery.

PRE TAXI CLNC-Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900–0000Z‡" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW-Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

33 AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times. Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

0

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

 $\textbf{AIRSPACE: CLASS C} \text{ svc ''times'' ctc } \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS C, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C, with C, with Class C, with C, with$

0

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

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AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

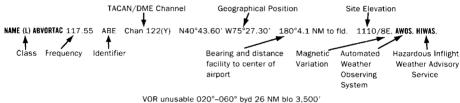
Class E 700′ AGL (shown as magenta vignette on sectional charts) and 1200′ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700′/1200′ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Charting Office Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's and will be implemented throughout the conterminous U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance	
		(NM)	
(T) Terminal	1000' to 12,000'	25	
(L) Low Altitude	1000' to 18,000'	40	
(H) High Altitude	1000' to 14,500'	40	
	14,500' to 18,000'	100	
	18,000' to 45,000'	130	
	45.000' to 60.000'	100	

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB	Automatic Weather Broadcast.
DF	Direction Finding Service.
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	Without voice on radio facility frequency.
Z	VHF station location marker at a LF radio facility.

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I. II. or III: the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A-4 NM prior to runway threshold, B-3500 ft prior to runway threshold, C-glide angle dependent but generally 750–1000 ft prior to threshold, T-runway threshold, D-3000 ft after runway threshold, and E-2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:



FREQUENCY PAIRING PLAN AND MLS CHANNELING

I REGULACI I AIRING I LAR AND MES CHARRELING								
MLS	VHF	TACAN	MLS	VHF	TACAN	MLS	VHF	TACAN
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN	VHF	MLS	TACAN	VHF	MLS	TACAN	VHF	MLS
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	_	102X	115.50	_
37Y	110.05	580	70X	112.30	_	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45		104X	115.70	-
39Y	110.25	584	72X	112.50		104X	115.75	668
40X	110.20	522	72Y	112.55		105X	115.80	-
40X 40Y	110.35	586	73X	112.60	-	105X	115.85	670
401 41X	110.33	360	73X 73Y	112.65	-	106X	115.85	670
41X 41Y	110.45	588	74X	112.00	-	106X	115.95	672
					-			0/2
42X	110.50	524	74Y	112.75	-	107X	116.00	
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	- 070
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80		77Y	113.05	-	110X	116.30	
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	_
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	_
58Y	112.15	-	91X	114.40		123Y	117.65	
59X	112.20		91Y	114.45	642	124X	117.70	
59Y	112.25	_	92X	114.50	U-12	124X	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.73	-
60X	133.35	-	93X	114.60	0-+	125X 125Y	117.85	-
61X	133.40	-	93X 93Y	114.65	646	126X	117.90	-
61Y	133.40	-			040	126X 126Y		-
		-	94X	114.70	649	1201	117.95	-
62X 62Y	133.50 133.55	-	94Y 95X	114.75 114.80	648			
U∠ĭ	133.33	-	ADY	114.80	-			

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

142 WASHINGTON

ABBOTSFORD, BC (CYXX) 2.2 SW UTC-8(-7DT) N49°01.52' W122°21.63'

SEATTLE

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195 B S4 FUEL 100LL, JET A AOE NOTAM FILE CYXX
                                                                                                   H-1R I-1F
       RWY 07-25: H9600X200 (ASPH-CONC)
                                          HIRI
                                    RWY 25: ODALS-PAPI. Thid dspicd 295'.
         RWY 07: SSALR. Rgt tfc.
       RWY 01-19: H5328X200 (ASPH)
                                   MIRI
                                       RWY 19: PAPI(P2L).
         RWY 01: REIL. PAPI. Rgt tfc.
       RWY 01A-19A: 1500X100 (TURF)
       RUNWAY DECLARED DISTANCE INFORMATION
         RWY 01: TORA-5328 TODA-6188 ASDA-5328 LDA-5328
         RWY 01A: TORA-1500 TODA-1500 ASDA-1500 LDA-1500
         RWY 07: TORA-9597 TODA-10101 ASDA-9597 LDA-9597
         RWY 19: TORA-5328 TODA-5854 ASDA-5328 LDA-5328
         RWY 19A: TORA-1500 TODA-1500 ASDA-1500
                                                       LDA-1500
         RWY 25: TORA-9600 TODA-10600 ASDA-9600 LDA-9305
       AIRPORT REMARKS: Attended continuously. All acft including Jet acft, IcI training flights not permitted from
         0600-1500Z<sup>±</sup> except as otherwise authorized by the arpt manager. These procedures apply to all jet acft
         including turbo-jets, turbo-fanjets and fanjets. Prior notice required for customs 1600-0800Z‡ 888-226-7277.
         IFR training flights PPR ctc 604-586-4592 or 800-668-1333. Helicopter training on fld. Numerous obstructions
         in helicopter training areas. Turf rwys limited maintenance. Limited winter maintenance 1415-0630Z‡. Other
         times 2 hrs prior notice required call out charge may be levied. Twy D uncontrolled.
       COMMUNICATIONS: ATIS 119.8 (1500-0700Z±)
         ABBOTSFORD RADIO (CYXX) on arpt. 122.5 126.7.
         VICTORIA TERMINAL APP/DEP CON 132.7
         RADIO AIDS TO NAVIGATION: NOTAM FILE BLI.
         WHATCOM (H) VORTACW 113.0 HUH Chan 77 N48°56.72′ W122°34.76′ 41° 9.8 NM to fld. 80/20E.
         NDR (HW) 344
                     XX N49°00.93′ W122°29.27′ 068° 4.3 NM to fld. /19E.
         WHITEROCK NDB (MHW) 332 WC N49°00.20' W122°45.02'
                                                                067° 14.7 NM to fld. /19E.
         CULTUS NDB (HW) 214
                                 N49°01.27′ W122°02.98′
                                                            252° 12.3 NM to fld.
                            LU
    ABERN N46°59.26′ W123°47.86′.
                                        NOTAM FILE HOM.
                                                                                                      SEATTLE
       NDB (LOM) 236 HQ
                           241° 5.8 NM to Bowerman. LOM unusable 150°-180° byd 10 NM.
    AJ EISENBERG
                   (See OAK HARBOR)
    AMERICAN LAKE SPB
                          (See TACOMA)
ANACORTES
                 (74S) 2 W UTC-8(-7DT) N48°29.94′ W122°39.74′
    ANACORTES
                                                                                                      SEATTLE
       241 B S4 FUEL 100, JET A LRA NOTAM FILE SEA
                                                                                                        L-1E
       RWY 18-36: H3015X60 (ASPH-GRVD) S-12.5
                                                   MIRL
                                                                                       C C
                                                                                            63
                                                                                                  €3
         RWY 18: REIL. PAPI(P4R)-GA 3.0° TCH 40'. Trees. Rgt tfc.
                                                                               ¢
                                                                                                       Pasidantial
                                                                                             8/
                                                                                                  Ø
         RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.
                                                                                                       Area
       AIRPORT REMARKS: Unattended. Military arrival corridor N and W of arpt.
                                                                                   €3
                                                                                                 €3
         No touch and go ldgs. Noise abatement procedures in effect, ctc
                                                                                                63
         arpt manager 360-293-3134. Rwy 36 preferred calm wind rwy.
                                                                                                 C3
         ACTIVATE MIRL and REIL Rwy 18 and Rwy 36-CTAF.
       COMMUNICATIONS: CTAF 128.25
       RADIO AIDS TO NAVIGATION: NOTAM FILE BLI.
         WHATCOM (H) VORTACW 113.0 HUH Chan 77 N48°56.72'
                         167° 27.0 NM to fld. 83/20E.
                                                                          Œ
                                                                                                  03
           HIWAS
                                                                                              Œ
                                                                                             43
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SKYLINE SPB (21H) 3 W UTC-8(-7DT) N48°28.99′ W122°41.08′

00 NOTAM FILE SEA.

WATERWAY NW-SE: 5000X2500 (WATER)
WATERWAY NW-HIII WATERWAY SE-I

WATERWAY NW: Hill. WATERWAY SE: Hill.

SEAPLANE REMARKS: Unattended. Land to SE. Military arrival corridor N and W of arpt.

COMMUNICATIONS: CTAF 128.25

ANATONE

ROGERSBURG (D69) 8 SE UTC-8(-7DT) N46°04.47′ W116°57.97′

SEATTLE

SEATTLE

H-1B, L-1E

SEATTLE

869 NOTAM FILE SEA

RWY 09-27: 1471X50 (TURF)

AIRPORT REMARKS: Unattended. Arpt CLOSED 15 Nov-1 Mar. Be alert for horses, deer, and elk on rwy. Vehicles,

pedestrians, or wildlife on or invof rwy. No camping, fires, or parking for more than five acft at any time. Spill kit avbl.

COMMUNICATIONS: CTAF 122.9

ANDERSON FLD (See BREWSTER)

APEX AIRPARK (See SILVERDALE)

ARLINGTON MUNI (AWO) 3 SW UTC-8(-7DT) N48°09.65′ W122°09.54′

142 B S4 **FUEL** 100LL, MOGAS, JET A + TPA—See Remarks NOTAM FILE AWO

RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tree. Rgt tfc.

RWY 34: MALS. PAPI(P2L)—GA 3.0° TCH 46'.

RWY 11-29: H3498X75 (ASPH) S-32, D-34, DT-59 RWY 11: REIL. PAPI(P2L)—GA 3.5° TCH 42'. Rgt tfc.

RWY 29: REIL. PAPI(P2L)—GA 4.0° TCH 40'. Tree.

AIRPORT REMARKS: Attended 1600Z‡—dusk. Self svc 100LL and MOGAS avbl 24 hrs. Glider operations at arpt daily. Ultralight opns daily at NW corner of arpt. Occasional hot air balloon activity. Helicopter training area, autorotations in grass and on south parallel twy Rwy 29 and along Twy B. Hovering area near compass rose located area Rwy 29 and Twy E. TPA—1200(1058). TPA for ultralights 500(358), helicopters 637(495). Taxiing acft over 12,500 lbs remain clear of west side of arpt, Twy C and ramps on west side of Twy D. ACTIVATE MALS Rwy 34—122.7. PAPI Rwys 11, 16, 29 and 34 and REIL Rwys 11, 16, and 29 ops 24 hrs. Landing fee for acft over 12,500 lbs.

WEATHER DATA SOURCES: AWOS-3 135.625 (360) 435-8045.

COMMUNICATIONS: CTAF/UNICOM 122.7

R SEATTLE CENTER APP/DEP CON 128.5

RADIO AIDS TO NAVIGATION: NOTAM FILE PAE.

PAINE (L) VORW/DME 110.6 PAE Chan 43 N47°55.19′ W122°16.67′ 358° 15.2 NM to fld. 670/20E. WATON NDB (LOM) 382 AW N48°04.57′ W122°09.23′ 338° 5.1 NM to fld.

ILS 111.5 I–AWO Rwy 34. LOM WATON NDB. Localizer only. Localizer unmonitored continuously.

144 MUTSHINGTON

AUBURN MUNI (\$50) 2 N UTC-8(-7DT) N47°19.66′ W122°13.60′

63 B S4 FUEL 100LL OX 4 TPA-1063(1000) NOTAM FILE SEA

S-12.5 MIRL RWY 16-34: H3400X75 (ASPH)

RWY 16: REIL. VASI(V4R). Building. Rgt tfc.

RWY 34: REIL. VASI(V4L)-GA 4.0° TCH 53'. Parking lot.

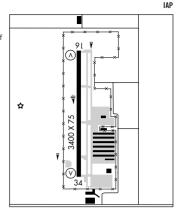
AIRPORT REMARKS: Attended 1600-0100Z‡. Fuel 24 hrs credit card self svc. Rwy 16 east-west high voltage transmission line, 80' AGL located 1804' N of Rwy 16 thld at 20:1. Sea gulls and other birds using lagoon on W side of arpt. Ultralights and hot air balloons prohibited. Plan apchs and departures to avoid extremely noise sensitive residential area E of the arpt.

COMMUNICATIONS: CTAF/AUNICOM 122.8

R SEATTLE APP/DEP CON 123.85

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

SEATTLE (H) VORTACW 116.8 SEA Chan 115 N47°26.12' W122°18.58' 133° 7.3 NM to fld. 354/19E.



AUGSPURGER MOUNTAIN N45°44.06′ W121°40.79′

RCO 122.3 (MC MINNVILLE RADIO)

SEATTLE L-1C

SFATTLE

I-1D

AULT FLD (See WHIDBEY ISLAND NAS)

AVEY FLD STATE (See LAURIER)

BADGER MOUNTAIN N47°35.29' W120°08.60'

RCO 122.3 (SEATTLE RADIO)

SEATTLE L-1D. 9A

BANDERA STATE (4WØ) 0 W UTC-8(-7DT) N47°23.72′ W121°32.19′

SEATTLE

1636 NOTAM FILE SEA

RWY 08-26: 2344X200 (TURF)

RWY 08: Trees RWY 26: Trees

AIRPORT REMARKS: Unattended. Arpt CLOSED 1 Oct-1 June. Rwy 08-26 extremely rough, and soft when wet. Watch for pedestrian, vehicles and animals on rwy. Ctc Washington State Aviation Division 360-651-6300 or 1-800-552-0666 Washington area for facility information prior to use.

COMMUNICATIONS: CTAF 122.9

BATTLE GROUND N45°44.87′ W122°35.49′ NOTAM FILE PDX.

SEATTLE

(H) VORTACW 116.6 BTG Chan 113 161° 9.6 NM to Portland Intl. 253/21E.

TACAN azimuth and DME unusable 035°-085° byd 35 NM blo 10,000'.

H-1B. L-1C

BATTLE GROUND

CEDARS NORTH AIRPARK (W58) 1 NW UTC-8(-7DT) N45°45.87′ W122°30.91′

SEATTLE

275 NOTAM FILE SEA

RWY 08-26: 1960X50 (TURF)

RWY 08: Road. RWY 26: Road.

AIRPORT REMARKS: Unattended. Birds on and invof arpt. Transition between rwy and twy on marked twys only.

COMMUNICATIONS: CTAF 122.9

GOHEEN (W52) 3 NW UTC-8(-7DT) N45°49.61' W122°34.61'

SFATTLE

292 B S4 FUEL 100 NOTAM FILE SEA

RWY 15-33: 2565X50 (TURF) LIRL

RWY 15: VASI(NSTD), Trees. RWY 33: P-line.

RWY 07-25: 1500X48 (TURF)

RWY 07: Building.

RWY 25: Tree. AIRPORT REMARKS: Attended continuously. Rwy 07-25 for emerg only. Rwy 15-33 width of 43' over culvert in center of fld. Rwy 15-33 sfc uneven with an incline. Rwy 15 has NSTD single lgt VASI both sides of rwy. ACTIVATE bcn

and LIRL Rwv 15-33-CTAF.

COMMUNICATIONS: CTAF 122.9

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BELLINGHAM

BELLINGHAM INTL (BLI) 3 NW UTC-8(-7DT) N48°47.56′ W122°32.25′

SEATTLE. 170 B S7 FUEL 100LL, JET A OX 3, 4 TPA—See Remarks AOE Class I, ARFF Index B H-1B. L-1E NOTAM FILE BLI IAP, AD

RWY 16-34: H6701X150 (ASPH-AFSC) S-75, D-160, ST-175, DT-250 HIRL

RWY 16: MALSR. PAPI(P4L)-GA 3.0° TCH 50'. Rgt tfc. RWY 34: REIL. VASI(V4L)-GA 3.0° TCH 50'. Tree.

AIRPORT REMARKS: Attended continuously. Birds on and in vicinity of airport, PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 360-671-5674. Twr svc not avbl at Twy A invof Twy G, the south hold area and the runup area due to obstructed vision. Twy J. Twy F from Twy A eastward to Twy D, and Twy D from Twy E to Twy F closed to air carrier ops. Commercial ramp clsd to pvt acft. Noise abatement procedures in effect ctc arpt manager at 360-671-5674, TPA-1200 (1030) fixed wing: 700 (530), helicopter: 2000 (1830) turbo, Touchdown rwy visual range available Rwy 16, Ldg fee, When twr clsd ACTIVATE HIRL Rwv 16-34. MALSR Rwv 16 and REIL Rwv 34—CTAF. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (360) 671-8688.

COMMUNICATIONS: CTAF 124.9 ATIS 134.45 (360) 647-5939

UNICOM 122.95

RCO 122.15 (SEATTLE RADIO)

R VICTORIA APP/DEP CON 132.7

TOWER 124.9 (1500-0630Z‡) GND CON 127.4

AIRSPACE: CLASS D svc 1500-0630Z‡ other times class E.

RADIO AIDS TO NAVIGATION: NOTAM FILE BLI.

WHATCOM (H) VORTACW 113.0 HUH Chan 77 N48°56.72′ W122°34.76′ 150° 9.3 NM to fld.

83/20F HJWAS

ILS/DME 108.5 I-BLI Chan 22 Rwy 16. Class IA.

FLOATHAVEN SPB (ØW7) 6 SE UTC-8(-7DT) N48°43.69′ W122°20.16′

SEATTLE

307 S2 NOTAM FILE SEA

WATERWAY 12-30: 10000X4000 (WATER)

SEAPLANE REMARKS: Attended dalgt hours. Canoe, sailboat, and hang glider activity invof arpt. For airframe repairs call 425-814-2290 prior to arrival to arrange svcs. Land and take off in the center of the lake. Avoid flying over noise sensitive area during tkf and ldg.

COMMUNICATIONS: CTAF 122.9

BOEING FLD/KING CO INTL (See SEATTLE)

BOWERMAN (See HOOUIAM)

BOWERS FLD (See ELLENSBURG) **BREMERTON NATIONAL** (PWT) 7 SW UTC-8(-7DT) N47°29.42′ W122°45.89′ 444 B S4 **FUEL** 100LL, JET A TPA—1444(1000) NOTAM FILE PWT

RWY 01-19: H6000X150 (ASPH) S-66, D-150, ST-113, DT-336 HIRL

RWY 01: PAPI(P4L)-GA 3.0° TCH 45'. Rgt tfc.

RWY 19: MALSR. PAPI(P4L)-GA 3.0° TCH 48'. Fence.

AIRPORT REMARKS: Attended 1500–0300Z‡. 24 hour fuel terminal located 300' WSW of Twy E. Rwy 19 designated calm wind rwy. All acft above 70,000 lb weight class are required to use Twy E and back taxi on rwy when departing Rwy 19. Wildlife fence crosses north end of abandoned rwy. Fee for aircraft over 60,000 pounds. ACTIVATE MALSR Rwy 19 and PAPI Rwy 01 and Rwy 19—CTAF.

WEATHER DATA SOURCES: AWOS-3 121.2 (360) 674-2811.

COMMUNICATIONS: CTAF/UNICOM 123.05

R SEATTLE APP/DEP CON 127.1

AIRSPACE: CLASS E svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE TCM.

 OLYMPIA (H) VORTACW
 113.4
 OLM
 Chan 81
 N46°58.30′

 W122°54.11′
 351° 31.6 NM to fld. 200/19E.
 HIWAS.

 McCHORD (T) VORTAC
 109.6
 TCM
 Chan 33
 N47°08.86′

W122°28.50' 308° 23.7 NM to fld. 284/22E. No NOTAM MP Thu 0700–1400Z‡.

CARNEY NDB (MHW) 274 CAN N47°24.63′ W122°50.33′ 012° 5.7 NM to fld. NOTAM FILE PWT.

NDB unusable 030°–310° beyond 15 NM.

KITSAP NDB (MHW) 206 PWT N47°29.54′ W122°45.40′ at fld. NOTAM FILE PWT.

NDB unusable 210°-310° byd 12 NM.

ILS 111.1 I-PWT Rwy 19. Class IA.

BREWSTER

ANDERSON FLD (S97) 3 E UTC-8(-7DT) N48°06.29' W119°43.24'

914 B S6 **FUEL** 100LL NOTAM FILE SEA

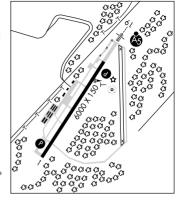
RWY 07–25: H4000X60 (ASPH) S–15 MIRL **RWY 25**: PAPI (P2L)—GA 3.0°.

AIRPORT REMARKS: Unattended. Fuel emergency use only. See charter opr who lives on fld. PAPI Rwy 25 OTS indef. ACTIVATE MIRL Rwy 07–25—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MWH.

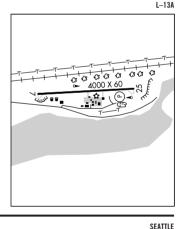
MOSES LAKE (H) VORW/DME 115.0 MWH Chan 97 N47°12.65′ W119°19.01′ 325° 56.1 NM to fld. 1194/18E.



SEATTLE

ΙΔΡ

H-1B. L-1D



BUCKHORN MOUNTAIN N46°32.49′ W123°01.27′

RCO 122.2 (SEATTLE RADIO)

L-1C

SEATTLE

ΙΔΡ

BURLINGTON/MOUNT VERNON

SKAGIT RGNL (BVS) 3 W UTC-8(-7DT) N48°28.25′ W122°25.25′ 144 B S4 **FUEL** 100LL, JET A TPA—See Remarks NOTAM FILE BVS

SEATTLE H-1B, L-1E

RWY 10-28: H5477X100 (ASPH) S-19 MIRL 0.8% up W

RWY 10: REIL. VASI(V4L)—GA 3.0° TCH 40'.

RWY 28: REIL. VASI(V2L)-GA 3.5° TCH 46'.

RWY 04-22: H3000X60 (ASPH) S-17 LIRL 0.4% up NE

RWY 04: PAPI(P2L)-GA 3.0° TCH 40'.

RWY 22: PAPI(P2R)-GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended Mon-Fri 1400-0100Z‡. Deer and birds on and invof rwys. Helicopter training ops on arpt with autorotations on rwy. NW 2000' of parallel twy Rwy 10-28 for ultralight use. All ultralight patterns E of fld. Use of Twy G by acft with wingspan 49' or greater not advised when Rwy 04-22 in use. TPA-1144(1000) Ultralight TPA-644(500). Rwy 04-22 compass rose in stopway SW end. ACTIVATE MIRL Rwy 10-28, LIRL Rwy 04-22, VASI Rwy 10 and Rwy 28, and REIL Rwy 10 and Rwy 28—CTAF. PAPI Rwy 04 and Rwy 22 opr continuously.

WEATHER DATA SOURCES: AWOS-3 121.125 (360) 757-7767.

COMMUNICATIONS: CTAF/UNICOM 123.075

R WHIDBEY APP/DEP CON 120.7

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

TATOOSH (H) VORTACW 112.2 TOU Chan 59 N48°17.99' W124°37.62' 061° 88.8 NM to fld. 1652/22E.

HIWAS.

SKAGIT/BAY VIEW NDB (MHW) 240 BVS N48°28.12′ W122°25.10′ NDB unusable 350°–030° byd 20NM.

at fld. NOTAM FILE BVS.

at ha. No man rice byo.

CAMANO ISLAND AIRFIELD (See STANWOOD)

CAMAS

GROVE FLD (1W1) 3 N UTC-8(-7DT) N45°37.67′ W122°24.26′

NOTAM FILE SEA

SEATTLE

RWY 07-25: H2710X40 (ASPH) MIRL (NSTD)

RWY 07: PAPI(P2L)—GA 5.0°. Thid dsplcd 493'. Trees.

RWY 25: PAPI(P2L)-GA 5.0°. Thid dsplcd 413'. Trees.

AIRPORT REMARKS: Unattended. For fuel after hrs credit card lock. Noise abatement procedures in effect, ctc Port of Camas—Washougal at 360–835–2196. Rwy 07–25 has buildings, telephone poles and trees encroaching in safety areas. Rwy 07 and Rwy 25 have 4 thid stripes falsely indicating 60' width. NSTD MIRL Rwy 07 and Rwy 25 dsplcd thids unlighted. ACTIVATE rotating bon and MIRL Rwy 07–25—CTAF.

COMMUNICATIONS: CTAF 122.9
PORTLAND CLNC DEL 121.65

429 B S4 FUEL 100

CARNEY N47°24.63′ W122°50.33′ NOTAM FILE PWT.

SEATTLE

NDB (MHW) 274 CAN 012° 5.7 NM to Brementon National.

L-1D

NDB unusable 030°-310° beyond 15 NM.

CASHMERE-DRYDEN (8S2) 0 SW UTC-8(-7DT) N47°30.89′ W120°29.08′

SEATTLE

858 B S4 NOTAM FILE SEA

RWY 07-25: H1800X50 (ASPH) S-8 MIRL

RWY 07: Fence. RWY 25: PAPI(P2L)—GA 3.0°. Thid dsplcd 182'. Trees.

AIRPORT REMARKS: Unattended. Ground vehicles and pedestrians use twy for hanger and residential access. Exit rwy at twys only. Radio control model activity permitted on W end of arpt. ACTIVATE MIRL Rwy 07–25—121.7.

COMMUNICATIONS: CTAF 122.9

CEDARS NORTH AIRPARK (See BATTLE GROUND)

148 WASHINGTON

CHEHALIS-CENTRALIA (CLS) 1 W UTC-8(-7DT) N46°40.62′ W122°58.97′

176 B S4 **FUEL** 100LL, JET A OX 4 NOTAM FILE SEA **RWY 16-34:** H5000X150 (CONC) S-30, D-30, DT-85 MIRL

RWY 16: REIL. PAPI(P4L)—GA 4.0° TCH 51'. Trees. Rgt tfc.

RWY 34: REIL. VASI(V2L)—GA 4.5°TCH 35'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1500-0100Z‡. Fuel avbl 24 hrs by credit card only. No debit cards. Possible wildlife on rwys. ACTIVATE MIRL Rwy 16-34 and REIL Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.025 (360) 740-5164.

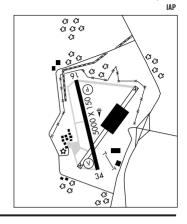
COMMUNICATIONS: CTAF/UNICOM 122.8

R SEATTLE APP CON 121.1

SEATTLE CENTER DEP CON 124.2

RADIO AIDS TO NAVIGATION: NOTAM FILE OLM.

HIWAS.



SEATTLE

SEATTLE

L-13A

H-1B. L-1C

CHELAN

LAKE CHELAN (S1Ø) 3 NE UTC-8(-7DT) N47°51.96′ W119°56.56′

1263 B S2 FUEL 100LL, JET A NOTAM FILE SEA

RWY 02–20: H3503X60 (ASPH) S–12 MIRL **RWY 02**: Thid dspicd 447'. Road. Rgt tfc.

RWY 20: PAPI(P2L). Thid dsplcd 197'. Trees.

AIRPORT REMARKS: Attended continuously. Self-service fuel avbl 24 hrs. ACTIVATE MIRL Rwy 02-20 CTAF 122.9.

COMMUNICATIONS: CTAF/UNICOM 122.95

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 303° 36.1 NM to fld. 1250/21E.

CHEWELAH

SAND CANYON (1S9) 2 N UTC-8(-7DT) N48°18.85′ W117°44.60′

2084 B NOTAM FILE SEA

RWY 17-35: H3446X48 (ASPH) MIRL

RWY 17: PAPI(P2L)—GA 4.0° TCH 63'. Thid dspicd 230'. Tree. Ref tfc.

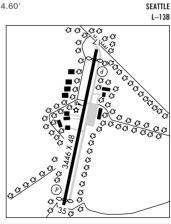
RWY 35: PAPI(P4L)-GA 3.0°. Thid dsplcd 101'.

AIRPORT REMARKS: Unattended. Deer and wildlife on and invof arpt. ACTIVATE MIRL Rwy 17–35—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE GEG.

SPOKANE (H) VORTACW 115.5 GEG Chan 102 N47°33.90′ W117°37.61′ 333° 45.2 NM to fld. 2755/21E. **HIWAS**.



CLAYTON

CROSS WINDS (C72) 2 SE UTC-8(-7DT) N47°58.99′ W117°32.56′

2150 TPA—See Remarks NOTAM FILE SEA

RWY 13L-31R: 3800X125 (TURF)

RWY 13L: P-line. RWY 31R: ThId dsplcd 170'. Road. Rgt tfc.

RWY 13R-31L: 2065X50 (TURF)

RWY 13R: Fence. Rgt tfc. RWY 31L: Road.

AIRPORT REMARKS: Unattended. Arpt CLOSED winters, open only to ski equipped acft. Use care during high wind due to turbulence and crosswind. Rwy not useable during heavy snow and spring mud. Radio controlled model acft on and invof arpt. Watch out for mole holes on rwy, rwy rough. Rwy 13L–31R edges marked with red traffic cones, Rwy 13R–31L ultralight rwy. Ultralight tfc on arpt. TPA—3150 (1000); Ultralight—2650 (500).

COMMUNICATIONS: CTAF 122.9

CLE ELUM

CLE ELUM MUNI (S93) 1 E UTC-8(-7DT) N47°11.66′ W120°53.01′

SEATTLE

SEATTLE

1944 B TPA—2944(1000) NOTAM FILE SEA

RWY 07-25: H2552X40 (ASPH) MIRL

RWY 07: REIL. PAPI (P2L)—GA 4.0° TCH 20'. Thid dsplcd 130'. Rgt tfc.

RWY 25: REIL. PAPI (P-2L)—GA 4.0° TCH 20'. Thid dsplcd 130'. Tree.

AIRPORT REMARKS: Unattended. Wildlife on and invof rwy. Gliders use CTAF freq 122.3. ACTIVATE rotating bcn, MIRL Rwy 07–25 and REIL Rwy 07 and Rwy 25—CTAF. PAPI Rwy 07 and Rwy 25 opr continuously.

COMMUNICATIONS: CTAF 122.9

DE VERE FLD (2W1) 3 E UTC-8(-7DT) N47°10.66′ W120°51.16′

SEATTLE

1800 NOTAM FILE SEA

RWY 08-26: H2055X30 (ASPH) LIRL(NSTD)

RWY 08: Trees. Rgt tfc. RWY 26: Trees.

AIRPORT REMARKS: Attended dalgt hours. Field occasionally CLOSED in winter. Wildlife on and invof rwy. Rwy 08–26 has 2 inch dropoff along entire rwy both sides. For LIRL Rwy 08–26 call 509–674–2627. Rwy 08–26 LIRL(NSTD)—thid lgts 360° green.

COMMUNICATIONS: CTAF 122.9

COLFAX

LOWER GRANITE STATE (ØØW) 12 S UTC-8(-7DT) N46°40.41′ W117°26.56′

SEATTLE

719 NOTAM FILE SEA

RWY 14-32: 3400X50 (GRVL)

RWY 14: Trees. RWY 32: Hill

AIRPORT REMARKS: Unattended. CLOSED 1 Oct-1 June. Pedestrians, vehicles and animals on or invof rwy. P-lines west and north; Rwy 14–30 rough.

COMMUNICATIONS: CTAF 122.9

PORT OF WHITMAN BUSINESS AIR CENTER (S94) 3 SW UTC-8(-7DT) N46°51.52′ W117°24.85′ SEATILE
2181 B FUEL 100LL TPA—3010(829) NOTAM FILE SEA L-138

RWY 07-25: H3209X60 (ASPH) S-17 MIRL (NSTD)

RWY 07: Thid dsplcd 492'. Road. RWY 25: Thid dsplcd 319'. Hills.

AIRPORT REMARKS: Attended dawn-dusk. 100LL fuel avbl for emergencies. Call 509–397–3791. Rwy 07–25 farm machinery may be operating in fields on both sides of rwy and off both rwy ends. Rwy 07–25 NSTD MIRL only center 2240' lgtd. 30' bldg 250' S AER 25. ACTIVATE MIRL Rwy 07–25—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE PUW.

PULLMAN (L) VORW/DME 109.0 PUW Chan 27 N46°40.46′ W117°13.41′ 305° 13.6 NM to fld. 2720/20E.

HIWAS. DME unmonitored.

150 WASHINGTON

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COLLEGE PLACE
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MARTIN FLD (S95) 1 W UTC-8(-7DT) N46°02.82' W118°25.03'

746 S4 FUEL 100LL, MOGAS OX 4 NOTAM FILE SEA

SEATTLE L-13A

RWY 05-23: H3819X60 (ASPH) S-12 LIRL(NSTD)

RWY 05: VASI(V2L). RWY 23: VASI(V2L). Road.

AIRPORT REMARKS: Attended Mon-Fri 1600-0100Z‡. Attended evenings and Sat-Sun as required, on call 509-522-1847. Private road crosses 700' from southwest end of rwy. ACTIVATE NSTD LIRL Rwy 05-23 and

VASI Rwys 05 and 23—CTAF. Rwy 05–23 NSTD LIRL SW 1240' medium ints. Airport lighting operates from dusk until 1000z±, 24 hr self service credit card fueling facility. Ldg fee.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

WALLA WALLA (L) VORW/DME 116.4 ALW Chan 111 N46°05.22′ W118°17.55 225° 5.7 NM to fld. 1150/20E.

COLVILLE MUNI (63S) 1 E UTC-8(-7DT) N48°32.63′ W117°53.03′

SEATTLE

1882 B S4 FUEL 100LL NOTAM FILE CQV

RWY 01-19: H2695X40 (ASPH) S-11 MIRL

RWY 01: PAPI(P2L)—GA 4.0°. RWY 19: Thid dspicd 255'. Fence.

AIRPORT REMARKS: Attended Mon-Fri 1600–0100Z‡. Watch for deer on and invof arpt. When Idg Rwy 19, bright Igts around high school stadium, approximately % miles S of arpt. ACTIVATE MIRL Rwy 01–19—CTAF. Car avbl.

COMMUNICATIONS: CTAF/UNICOM 122.8

CONCRETE

MEARS FLD (3W5) 1 S UTC-8(-7DT) N48°31.79′ W121°45.50′

SEATTLE

267 NOTAM FILE SEA

RWY 07-25: H2609X60 (ASPH) S-12

RWY 07: Trees. Rgt tfc. RWY 25: Trees.

AIRPORT REMARKS: Unattended, All patterns south of arpt.

COMMUNICATIONS: CTAF 122.9

HELIPAD H1: H40X40 (CONC)

COPALIS STATE (S16) 2 NW UTC-8(-7DT) N47°07.49' W124°11.08'

SEATTLE

1 NOTAM FILE SEA RWY 14-32: 4500X150 (SAND)

RWY 14: Rock. Rgt tfc.

AIRPORT REMARKS: Unattended. Arpt CLOSED to vehicles Apr 15 thru Sep 8. Vehicles, pedestrians and animals on and in vicinity of rwy. River course change may alter rwy length. Stream crossing 1500' from the end of Rwy 14.

CREST AIRPARK (See KENT)

CROSS WINDS (See CLAYTON)

DARRINGTON MUNI (1S2) O N UTC-8(-7DT) N48°15.52′ W121°36.61′

SEATTLE

553 B NOTAM FILE SEA

RWY 10-28: H2491X40 (ASPH) MIRL

RWY 10: Fence. RWY 28: Road.

AIRPORT REMARKS: Unattended. CLOSED when snow on rwy. Rwy 28 has no markings. Rwy 10 has small numbers only. Turbulence on hot days landing west between rows of trees. Taxiways marked with blue reflectors. MIRL Rwy 10–28 OTS indef. ACTIVATE MIRL Rwy 10–28—CTAF.

COMMUNICATIONS: CTAF 122.9

DAVENPORT (68S) 1 W UTC-8(-7DT) N47°39.21′ W118°10.13′

SEATTLE

2421 B FUEL 100LL NOTAM FILE SEA

RWY 05-23: H2747X50 (ASPH) MIRL

RWY 23: Trees. Rgt tfc.

RWY 03-21: 2271X45 (GRVL)

DWV 00 Town D Une

RWY 03: Trees. P-line. RWY 21: Trees. Rgt tfc.

AIRPORT REMARKS: Attended Mar–Jun dawn–dusk, Jul–Feb Mon–Fri on call. Rwy 03–21 very soft in spring. Rwy 03–21 not marked.

COMMUNICATIONS: CTAF 122.9

DEER PARK (DEW) 3 NE UTC-8(-7DT) N47°58.02′ W117°25.72′ SFATTI F 2211 B S4 FUEL 100LL, JET A TPA-See Remarks NOTAM FILE DEW H-1C, L-13B RWY 16-34: H6100X75 (ASPH) S-21 MIRL 0.4% up NW ΙΔΡ RWY 16: REIL. PAPI (P4L)-GA 3.5° TCH 38'. Trees. RWY 34: REIL. PAPI(P4L)—GA 3.0° TCH 40'. 91 RWY 04-22: H3200X60 (ASPH) S-12.5 a AIRPORT REMARKS: Attended Apr-Oct 1600-0100Z‡, Nov-Mar ĬΞΞ 1800-0000Z‡. 100LL avbl 24 hrs credit card self service facility. Call ahead for Jet A svc 509-276-3379. Rwy 04-22 heavy glider activity weekends, Glider pattern TPA 3211(1000), Ultralight 6100 X 75 activity on arpt. Model airplane activity on arpt. Farming opr active on land adjacent to rwys. Deer and covotes on and invof runways. 175' twr 2000' W of Rwy 16-34. Noise abatement procedures in effect ctc arpt manager 509-276-3379. Rwy 16 preferred calm wind rwv. ACTIVATE MIRL Rwv 16-34-CTAF. WEATHER DATA SOURCES: ASOS 135.175 (509) 276-2303. COMMUNICATIONS: CTAF/UNICOM 123.0 R SPOKANE APP/DEP CON 123.75 (P RADIO AIDS TO NAVIGATION: NOTAM FILE GEG. SPOKANE (H) VORTACW 115.5 GEG Chan 102 N47°33.90' 34 W117°37.61' 358° 25.4 NM to fld. 2755/21E. HIWAS. NDB (MHW) 216 DPY N47°58.07' W117°25.58' at fld. NOTAM FILE DEW. NDB unmonitored. NDB unusable: 360°-070° byd 11 NM blo 5,700′ 110°-280° byd 15 NM 360°-070° byd 16 NM 280°-310° byd 8 NM 070°-110° bvd 8 NM 310°-360° bvd 15 NM COMM/NAV/WEATHER REMARKS: Monitor glider tfc on CTAF above 5,000 MSL. **DESERT AIRE** (See MATTAWA) DE VERE FLD (See CLE ELUM) DONNY N46°31.54′ W120°22.33′. NOTAM FILE YKM. SEATTLE NDB (LOM) 371 YK 274° 7.6 NM to Yakima Air Terminal/McAllister Fld. DOROTHY SCOTT (See OROVILLE) **DUNEZ** N46°20.29′ W119°00.75′. NOTAM FILE PSC. SEATTLE NDB (LOM) 331 PS 205° 6.3 NM to Tri-Cities. Unmonitored when twr clsd. EASTON STATE (ESW) 2 N UTC-8(-7DT) N47°15.25′ W121°11.13′ SEATTLE. 2226 NOTAM FILE SEA RWY 09-27: 2640X100 (TURF) MIRL RWY N9. Trees RWY 27: Trees AIRPORT REMARKS: Unattended. Arpt CLOSED Oct 1 thru Jun 1. Wind cone mounted on 50' self supporting tower. Rwy 27 thld lgts OTS indef. COMMUNICATIONS: CTAF 122.9 **EASTSOUND** ORCAS ISLAND (ORS) 1 N UTC-8(-7DT) N48°42.50′ W122°54.64′ SEATTLE 31 B S3 FUEL 100LL TPA-1031(1000) NOTAM FILE ORS L-1E RWY 16-34: H2900X60 (ASPH-AFSC) S-12.5 MIRL ΙΔΡ RWY 16: REIL. VASI(V4L)—GA 2.9° TCH 35'. RWY 34: REIL. PAPI(P2L)-GA 4.0° TCH 28'. Trees. Rgt tfc. AIRPORT REMARKS: Attended 1600-0030Z±. Self svc 24 hr fuel avbl with credit card. Deer on and invof rwv. Noise abatement procedures in effect, ctc arpt manager 360-376-5285. Additional transient tiedowns south of segmented circle. PAPI baffled W of centerline, lateral coverage has been narrowed to avoid obstacles, during decent close alignment to rwy centerline is necessary. ACTIVATE VASI Rwy 16, REIL Rwy 16 and Rwy 34 and twy lgts-128,25. WEATHER DATA SOURCES: AWOS-3 135,425 (360) 376-6045. COMMUNICATIONS: CTAF 128.25 VICTORIA NORTH APP/DEP CON 132 75

WHIDREY SOUTH APP/DEP CON 118 2

152 WASHINGTON

EATONVILLE

SWANSON (2W3) 1 NE UTC-8(-7DT) N46°52.30′ W122°15.43′

843 TPA—1643(800) NOTAM FILE SEA

RWY 16-34: H2990X36 (ASPH) MIRL

RWY 16: Trees. Rgt tfc. RWY 34: Ground.

AIRPORT REMARKS: Attended 1600–0400Z‡. CAUTION: Deer on and in vicinity of arpt. Buildings are in close proximity to rwy. Gravel svc road around Rwy 16–34 not avbl for acft ops. Taxi on rwy. Rwy 16–34 trees in apch and transitional surfaces both sides of rwy. Arpt Igts opr dusk–0800Z‡. After 0800Z‡, ACTIVATE MIRL Rwy 16–34—CTAF.

COMMUNICATIONS: CTAF 122.9

ED CARLSON MEMORIAL FLD-SOUTH LEWIS CO (See TOLEDO)

ELECTRIC CITY

GRAND COULEE DAM (3W7) 2 SW UTC-8(-7DT) N47°55.32′ W119°04.98′

1588 B NOTAM FILE SEA

RWY 03-21: H4199X75 (ASPH) S-26 MIRL

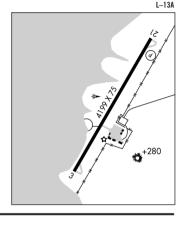
RWY 03: Hill. RWY 21: PAPI(P2L). Ground. Rgt tfc.

 $\label{eq:all-port_remarks: unattended} \textbf{ACTIVATE MIRL Rwy 03-21--CTAF.}$

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 002° 35.5 NM to fld. 1250/21E.



SEATTLE

SEATTLE

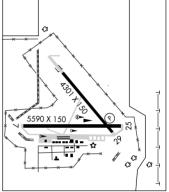
WASHINGTON	133
ELLENSBURG N47°01.46′ W120°27.50′ NOTAM FILE ELN.	SEATTLE
(H) VORTACW 117.9 ELN Chan 126 259° 3.0 NM to Bowers Fld. 1770/21E. HIWAS.	H-1B, L-13A
VORTAC unusable:	
090°–158° byd 10 NM 163°–268° byd 33 NM	
158°-163° byd 27 NM	
VOR portion unusable:	
300°-040° byd 25 NM 040°-080° byd 34 NM	
DME unusable:	
055°-070° byd 21 NM 163°-268° byd 33 NM	
070°-090° byd 34 NM 300°-055° byd 21 NM	
090°–158° byd 10 NM 350°–025° byd 15 NM	
158°-163° byd 27 NM	
RCO 122.2 (SEATTLE RADIO)	
ELLENSBURG BOWERS FLD (ELN) 2 N UTC-8(-7DT) N47°01.98′ W120°31.84′	SEATTLE
	H-1B, L-13A
	n-16, L-13A IAP
RWY 07-25: H5590X150 (ASPH) S-28 0.8% up E RWY 07: Tree. RWY 25: P-line.	IAP
RWY 11–29: H4301X150 (CONC) S–35, D–57, DT–100	
MIRL 0.4% up NW	

maintenance avail. Rwy 07–25 has weeds growing through cracks in pavement first 2000'. ACTIVATE MIRL Rwy 11–29—123.0. WEATHER DATA SOURCES: ASOS 118.375 (509) 925–2040. HIWAS 117.9 ELN. COMMUNICATIONS: CTAF/UNICOM: 123.0

ELLENSBURG RCO 122.2 (SEATTLE RADIO)
SEATTLE CENTER APP/DEP CON 132.6
RADIO AIDS TO NAVIGATION: NOTAM FILE ELN.

RWY 29: REIL. PAPI(P2R)—GA 3.0° TCH 40'.

AIRPORT REMARKS: Attended Mon-Fri 1500-0300Z‡, Sat-Sun 1500-0200Z‡. Rwy 07-25 CLOSED Dec 15-Feb 28, no



ELMA MUNI (4W8) 1 SW UTC-8(-7DT) N46°59.43′ W123°25.78′ 35 B TPA—835(800) NOTAM FILE SEA

RWY 07-25: H2280X30 (ASPH) MIRL (NSTD)

RWY 07: Trees. Rgt tfc. RWY 25: Thid dspicd 180' Trees.

AIRPORT REMARKS: Unattended. Rwy 07–25 NSTD MIRL. Rwy 25 dsplcd thid unigtd, 2095' of Rwy 07–25 avbl for ngt ops. Rwy 07–25 disregard white X's on rwy. Rwy 07–25 very narrow faded centerline stripe, rwy 1D NSTD dimensions. ACTIVATE NSTD MIRL Rwy 07–25—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

ELWHA N48°09.01′ W123°40.22′. NOTAM FILE CLM.

NDB (MHW/LOM) 515 CL 083° 7.1 NM to William R. Fairchild Intl.

SEATTLE L-1E

SEATTLE

NDB unusable 100°-235° beyond 12 NM.

EPHRATA MUNI (EPH) 2 SE UTC-8(-7DT) N47°18.48′ W119°31.01′

1276 B **FUEL** 100LL, JET A TPA—See Remarks NOTAM FILE EPH **RWY 03-21**: H5500X75 (ASPH) S-60, D-90, ST-114, DT-115 MIRL

RWY 03: PAPI (P4R)—GA 3.0° TCH 40'. Ground. Rgt tfc. 0.3% up.

RWY 21: PAPI (P4R)—GA 3.0° TCH 40′. RWY 11-29: H3843X60 (ASPH) S-40, D-53, DT-105 MIRL

RWY 11: REIL. Ground.

RWY 29: REIL. PAPI(P2L)—GA 3.0°. TCH 40'.

RWY 04-22: H3467X150 (ASPH)

RWY 22: Rgt tfc.

AIRPORT REMARKS: Attended 1530–0000Z‡. Credit card fuel avbl

1400–0600Z‡. Rwy 04–22 for gliders only. Parallel twy to Rwy

11–29 and 3 connector twys non air carrier movement area. Be
alert aerobatic acft activity over center of arpt. Ultralight activity
invof arpt. TPA for ultralight acft 1526(250). Heavy glider activity
from apron area Apr–0ct. Landings on Rwy 11 by all acft are
discouraged during glider opns due to tfc conflicts. ACTIVATE MIRL
Rwy 03–21 and MIRL Rwy 11–29 and REIL Rwy 11 and Rwy

29—CTAF. PAPI Rwy 29, Rwy 03 and Rwy 21 opr continuously.

UNICOM monitored intermittently.

WEATHER DATA SOURCES: ASOS 135.775 (509) 754-3761.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.2 (SEATTLE RADIO)

GRANT COUNTY APP/DEP CON 126.4 (1400-0600Z‡)

SEATTLE CENTER APP/DEP CON 126.1 (0600-1400Z‡)

AIRSPACE: CLASS E svc 1400-0600Z tother times CLASS G.

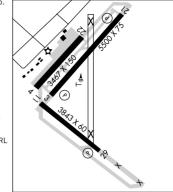
RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

(H) VORTACW 112.6 EPH Chan 73 N47°22.68' W119°25.44' 201° 5.7 NM to fld. 1250/21E.

VOR unusable 310°-350° byd 25 NM blo 6,500′. DME portion unusable:

280°-295° byd 25 NM blo 7.000′.

SEATTLE H-1B, L-13A IAP



310°-350° byd 25 NM blo 6.500′.

EVERETT

\$\text{SNOHOMISH CO (PAINE FLD)} \tag{PAE} \tag{PAE} \tag{6.89} \tag{UTC-8(-7DT)} \tag{N47°54.42' W122°16.89'} \tag{606} \tag{B} \tag{S4} \tag{FUEL} \tag{100LL.JET A} \tag{OX 1. 3} \tag{TPA-See Remarks} \tag{LRA}

06 B S4 FUEL 100LL, JET A OX 1, 3 TPA—See Remarks LF ARFF Index—See Remarks NOTAM FILE PAE H-1B, L-1D IAP, AD

SEATTLE.

RWY 16R-34L: H9010X150 (ASPH-CONC-GRVD) S-100, D-200, ST-175, DT-350, DDT-830 HIRL CL

RWY 16R: MALSR. PAPI(P4R)—GA 2.8°. Rgt tfc.

RWY 34L: MALSF. PAPI(P4L) GA 3.0° TCH 75'. Trees.

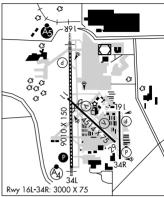
RWY 11-29: H4514X75 (ASPH) S-30 MIRL 0.9% up SE RWY 11: VASI(V2L)—GA 3.25° TCH 60'. Thid dsplcd 799'. Trees. RWY 29: VASI(V2R)—GA 4.0° TCH 57'. Trees.

RWY 16L-34R: H3000X75 (ASPH) S-12.5 MIRL

RWY 16L: REIL. PAPI(P2L)-GA 3.0°. Pole.

RWY 34R: REIL. PAPI(P2R)-GA 3.0°. Pole. Rgt tfc.

ARPORT REMARKS: Attended 1500–0500Z‡. For jet and helicopter fuel after hrs call 425–355–6600. Helicopters prohibited at fueling islands. Flocks of large and small birds in vicinity of arpt. Class I, ARFF Index B. Arpt CLOSED to air carrier ops with more than 30 passenger seats 0500–1500Z‡ except PPR ctc arpt director 425–353–2110/1606. For additional ARFF capability ctc arpt director 425–353–2110/1606. Rwy 11–29 and Rwy 16L–34R CLOSED between 0500–1500Z‡. First 2000' of Rwy 16R is concrete. Large acft fly W pattern over water, small acft fly E



pattern over arpt. Be alert for converging tfc on base to final legs Rwys 16R–34L 0500–1500Z‡. Training flights discouraged after 0600Z‡. Twy A–2 restricted to 30,000 lbs. Avoid overflight of Boeing ramp NE corner of arpt due to JET blast. Rwy 34L departures discouraged in calm wind conditions. Avoid intersection departures from Rwy 16L–34R and Rwy 29. Avoid intersection departures from Rwy 11 except from Twy Delta 1 intersection. Twy Echo lgts 0TS indef. Areas not visible from twr include E edge of S 1200′ of Twy A, Twy E from SE corner of west hangars to Twy A, mid section of outer terminal ramp, Twy H from NW edge of west hangars to Twy E, NE edge of inner terminal ramp. When twr clsd ACTIVATE HIRL Rwy 16R–34L, MALSR Rwy 16R and PAPI Rwy 34L—CTAF. Noise sensitive arpt, for noise abatement procedures and tfc procedures call arpt ops 425–353–2110 ext 2230. It is requested that pilots adhere to the following noise abatement procedures unless otherwise instructed by twr, itinerant arrival and low apch of small acft over 250 horsepower authorized on Rwy 29, Rwy 16L and Rwy 34R. Itinerant departure of small acft over 250 horsepower on Rwy 11 and Rwy 34R. If access to Boeing ramp required ctc Boeing Flight Dispatch 206–655–3421 for approval during normal duty hours. TPA–1606 (1000) for light acft, 2006 (1400) for heavy acft. Landing fee for acft over 30,000 lbs GWT. WEATHER DATA SUBRCES: ASOS (425) 355–6192. LAWRS.

COMMUNICATIONS: CTAF 132.95 ATIS 128.65 (425)355-9797. UNICOM: 122.95

PAINE RCO 122.55 (SEATTLE RADIO)

R SEATTLE CENTER APP/DEP CON 128.5

PAINE TOWER 132.95 (acft arrival W of centerline or departure Rwy 16R-34L) 120.2 (acft arrival E of centerline or departure Rwy 16L-34R) (1500-0500Z‡)

GND CON 121.8 CLNC DEL 126.75

AIRSPACE: CLASS D svc 1500-0500Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE PAE.

PAINE (L) VORW/DME 110.6 PAE Chan 43 N47°55.19′ W122°16.67′ at fld. 670/20E.

RITTS NDB (LOM) 396 PA N48°03.17′ W122°17.33′ 158° 8.8 NM to fld.

IL\$ 109.3 I-PAE Rwy 16R Class IE. LOM RITTS NDB. LOC/GS unmonitored (0500-1500Z‡)

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

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FAIRCHII D AFR
                  (SKA)(KSKA) AF (ANG)
                                            10 SW UTC-8(-7DT)
                                                                      N47°36.90′ W117°39.35′
                                                                                                        SEATTLE
  2461 B TPA—See Remarks
                                       AOE Class I, ARFF Index A NOTAM FILE SKA Not insp.
                                                                                                     H-1C I-13B
                                    PCN 51 R/B/W/T HIRL
                                                                                                        ΠΙΔΡ ΔΠ
  RWY 05-23: H13899X200 (CONC)
                                                               CI
    RWY 05: ALSF1. TDZL. PAPI(P4L)—GA 3.0° TCH 51'.
                                                           RWY 23: ALSF1. TDZL. PAPI(P4L). Rgt tfc.
  MILITARY SERVICE: LGT Rwy 05 PAPI not coincidental with ILS/GS. Apch lighting system Rwy 05-23 NSTD. JASU (MA-1A)
    (A/M32A-86) (MC-1A)
                            FUEL J8
                                       FLUID SP PRESAIR; De-ice Not avbl for C5, C17; LPOX
                                                                                             OIL 0-148-156
             TRAN ALERT Svc weekdays 1500-0700Z‡, weekends clsd. Ctc Base Ops not later than 15 minutes out for
    svc required. Fleet svc avbl. No potable water svc.
  MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Information. RSTD PPR includes scheduled AMC mission. 24 hr
     prior coordination required, use secure telephone when able, Base ops DSN 657-9593 (SECURE), DSN
    657-5439, C509-247-5439. All inbound passenger/cargo acft must ctc Command Post no later than 30 min
    prior to ldg. AMC acft opr rstd during Bird Watch Condition Moderate (tkf or ldg permission only when dep/arr
    route avoid identified bird activity, no local IFR/VFR tfc pattern activity) and Severe (tkf and ldg prohibited
    without Operation Group Commander approval) ctc twr, PTD, Supervisor of Flying, or Command Post for current
    Bird Watch condition. Acft configured with explosives are not authorized. Cargo acft transporting explosives are
    authorized. First 1300' Rwy 23/last 1300' Rwy 05 rated poor. Use Twy F int for Rwy 23 dep unless mission
    requires full length. To max extent possible exit Twy F when Idf Rwy 05. Avoid Idg on first 1300' of Rwy 23
    unless wx dictates use of instrument apch. Dur taxi acft are to use idle thrust and limit the use of reverse thrust
    when opr on first 1300' Rwy 23/last 1300' Rwy 05. Practice circling apch not authorized for tran acft. Parachute
    jumping activity Fri 2030-2130Z‡, Ellington Drop Zone, 5000' south of rwy. CAUTION Rwy edge lgts located 60'
    from outside of side stripe. Uncontrolled vehicles on all twys and ramps, Helicopter transition area located east
    of apch end Rwy 23 opr 400' and blo. Tran acft will not climb abv 3700' on dep during VFR conditions until the
    end of rwy unless specifically cleared by ATC. Do not mistake Spokane Intl 4.5 NM east for Fairchild AFB. Phase
    II (the high bird potential haz time period) of the Bird Aircraft Safety Hazard program is in effect annually from
    May to Oct. Rwy 05-23 overruns rated poor. TFC PAT TPA—Rectangular 3700 (1239), overhead 4200(1739). MISC
    Air Evac/Tran acft ctc PTD 20 minutes prior to arrival, Base OPS DSN 657-5435/9, C509-247-5435/9, CCAB
    depot input flights-ctc Expo ops (293.7) 30 minutes prior to arrival-for info call DSN 657-7100/7264. ANG Opr
    Mon-Fri 1515-2345Z‡, clsd weekend and holidays. PPR for ANG ramp DSN 657-7100/7264.
  COMMUNICATIONS: SFA
                      ATIS 257.625
                                       PTD 130.0 372.2
 R SPOKANE APP/DEP CON 133.35 263.0 (026°-204°) 123.75 282.25 (205°-025°)
    TOWER 120.35 233.7
                           GND CON 123.6 275.8
    COMD POST (STRIKEHAWK) 311 0 321 0
                                           PMSV METRO 234.8 Wx stn opr Mon-Thu 1300-1700Z‡. Fri hrs vary
      based on IcI flying, clsd weekend and hol. Full svc PMSV avbl via 25 OWS. AWOS in use. DSN 657-9010.
      C509-247-9010. Tran aircrew may ctc 25 OWS DSN 228-6598, or C520-228-6598 for wx briefing. When
      possible provide 2hr PN for all rqr briefings. WASHINGTON ANG OPS 293.7
  AIRSPACE: CLASS C svc ctc APP CON.
  RADIO AIDS TO NAVIGATION: NOTAM FILE SKA.
    (L) TACAN SKA Chan 51 N47°36.64′ W117°39.74′ at fld. 2438/19E. No NOTAM MP Tue 1400-1700Z‡
      (2000/3+1).
      TACAN unusable:
        110°-220° byd 20 NM blo 7,000′
                                                                    220°250° byd 30 NM blo 5,500'
        110°-220° bvd 30 NM blo 9.500'
    ILS 110.3
               I-FRC
                         Rwv 05.
                                    Back course unusable. No NOTAM MP Wed and Thu 1400-1700Z‡
      (2000/3+1).
    ILS 110.3
               I-SKA
                          Rwy 23.
                                     Class IT.
                                               Back course unusable. No NOTAM MP Wed and Thu
       1400-1700Z± (2000/3+1).
  COMM/NAV/WEATHER REMARKS: Acft rgr SFA notify Seattle Center or Spokane App Con 20 minutes out on any published
    frequency.
FELTS FLD
             (See SPOKANE)
FERRY CO
            (See REPUBLIC)
FIRSTAIR FLD
                (See MONROE)
FLOATHAVEN SPB
                   (See BELLINGHAM)
FLY FOR FUN
               (See VANCOUVER)
FORKS
         (S18) 1 SW UTC-8(-7DT) N47°56.26' W124°23.76'
                                                                                                         SEATTLE
          NOTAM FILE SEA
  299
  RWY 04-22: H2400X75 (ASPH)
                               MIRI
    RWY 04: REIL. Tree.
                             RWY 22: REIL. Tree. Rgt tfc.
  AIRPORT REMARKS: Unattended. Wildlife on and invof arpt.
  COMMUNICATIONS: CTAF 122.9
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FORT LEWIS (See GRAY AAF)

FRIDAY HARBOR

FRIDAY HARBOR (FHR) 0 SW UTC-8(-7DT) N48°31.32′ W123°01.46′

113 B S4 FUEL 100 LRA NOTAM FILE FHR

RWY 16-34: H3402X75 (ASPH) S-12.5 MIRL 0.8% up N

RWY 16: PAPI(P4R)-GA 4.0° TCH 38'. Building. Rgt tfc.

RWY 34: REIL, PAPI(P4L)—GA 3.5° TCH 40', Trees, Rgt tfc.

AIRPORT REMARKS: Attended 1600-0100Z‡. Fuel system self syc with credit card. Noise abatement procedures in effect ctc arpt manager 360-378-4724. Preferred Rwy 16 in calm wind conditions. Due to high concentration of tfc invof arpt recommend ldg lgts or forward visibility lgts turned on while utilizing arpt. Rwy 16 PAPI baffled W of centerline, lateral coverage has been narrowed to avoid obstacles during descent, maintain highest possible altitude and close alignment to rwy centerline. Acft in excess of 12,500 lbs charged fee based on weight and time of year-ctc arpt manager for information. Soft ground between tiedowns west parking area. Limited transient parking avbl during summer. ACTIVATE MIRL Rwy 16-34 and REIL Rwy 34-CTAF. ACTIVATE rotating bcn-CTAF. Ldg fee-Acft in excess of 12,500 lbs charged, fee based on weight-ctc arpt manager for info.

WEATHER DATA SOURCES: ASOS 135.675 (360) 378-8491.

COMMUNICATIONS: CTAF 128.25

R WHIDBEY APP/DEP CON 118.2

RADIO AIDS TO NAVIGATION: NOTAM FILE BLI.

WHATCOM (H) VORTACW 113.0 HUH Chan 77 N48°56.72′ W122°34.76′ 195° 31.0 NM to fld. 83/20E. **RAWIH**

_ _ _ _ _ _ _ _ _ _ _ _ _

NDB (MHW) 284 FHR N48°31.61′ W123°01.68′ at fld. NOTAM FILE FHR.

 $\textbf{FRIDAY HARBOR SPB} \hspace{0.5cm} (W33) \hspace{0.5cm} \texttt{0 NE} \hspace{0.5cm} \texttt{UTC} - 8 (-7 \texttt{DT}) \hspace{0.5cm} \texttt{N48°32.24' W123°00.58'}$

SEATTLE

SEATTLE

L-1E

IAP

00 LRA NOTAM FILE SEA

WATERWAY 03-21: 10000X2000 (WATER)

WATERWAY 12-30: 6000X1000 (WATER)

SEAPLANE REMARKS: Unattended. All tkfs should be performed N of Browns Island. Seaplanes ops warning Igts OTS indef. US customs user fee arpt. Flight Notification Service (ADCUS) available.

COMMUNICATIONS: CTAF 128.25

GOHEEN (See BATTLE GROUND)

GOLDENDALE (S2Ø) 1 NW UTC-8(-7DT) N45°49.93' W120°50.72'

SEATTLE L-13A

1678 B NOTAM FILE SEA

RWY 07-25: H3491X40 (ASPH) S-4 MIRL

RWY 07: REIL. Fence. RWY 25: REIL. SAVASI (S2L). Thid dsplcd 330'. Trees.

AIRPORT REMARKS: Unattended. NSTD white line crosses rwy near Rwy 07 marking. NSTD white line crosses rwy near Rwv 25 marking.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DLS.

KLICKITAT (H) VORW/DME 112.3 LTJ Chan 70 N45°42.81' W121°06.05' 035° 12.9 NM to fld. 3220/21E.

HIWAS

GRAND COULEE DAM (See ELECTRIC CITY)

GRANT CO (See MOSES LAKE)

GRAY AAF (FORT LEWIS) (GRE)(KGRE) A (AR ARNG) 1 E UTC-8(-7DT) SFATTLE N47°04.75' W122°34.85' H-1R I-1D 300 B TPA—See Remarks Class I, ARFF Index Ltd. NOTAM FILE SEA Not insp. DIAP. AD RWY 15-33: H6125X150 (ASPH) PCN 55 F/A/W/T HIRL RWY 15: SSALR PAPI RWY 33: SSALR. MILITARY SERVICE: FUEL J8-Ltd supply. MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remarks. RSTD 48 hr PPR transient acft, DSN 357-6628/5998, C253-967-6628/5998. CAUTION High volume of personnel/vehicles with negative radio communication on ground control crossing Twy G and Twy H. Numerous small arms 0.8 NM E of afld. TFC PAT TPA—E/W tfc, multi-engine fixed wing 1500(1200), single engine fixed wing 1300(1000), rotary wing 1000(700). Unmanned aerial vehicles 1000(700), west tfc only. MISC Special VFR Day fixed wing 700-1, rotary wing 300-1/2. Night fixed wing not authorized, rotary wing 500-1. Acft conducting tactical opr on Fort Lewis military reservation ctc OPS prior to opr. Ctc Gray tfc on CTAF when twr closed. No hangar for transient acft. Runway condition reading will be reported Mon-Fri, 1500-2300Z‡ via NOTAM and ATIS during inclement winter weather. WX observation visibility is limited to 2 SM in some directions. Wx observation automated by AN/FMO-19, WX observation augmented/backup as required. Twy E unusable to C-17 and larger acft. East ramp parking limited to C-12/UC-35/C-21 and smaller acft. AR Ctc OPS DSN 357-3036, C253-967-3036. ARNG Opr Tue-Fri 1430-0100Z‡ except holidays. Transient alert not avbl. Ltd parking. PPR for acft rqr fuel and parking, DSN 323-3805, C253-912-3805. COMMUNICATIONS: CTAF 119.325 ATIS 124.65 306.2 BULLSEYE RADIO 34.6 Opr continuously, exc holidays R SEATTLE APP/DEP 120.1 290.9 TOWER 119.325 256.8 276.4 (continuous, except holidays) GND CON 121.9 290.2 CLNC DEL 121.9 290.2 PMSV METRO 134.1 38.45 Full svc continuous, except holidays. Full svc may vary with local flight schedule. WX briefings for transient air crews avbl from 25 Operational Weather Squadron, Davis-Monthan AFB, DSN 228-6598) **OPS** 32.30 138.6 AR OPS 36.10 ARNG OPS 32.6 AIRSPACE: CLASS D syc continuous, except holidays, other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE GRF LACOMAS NDB (MHW) 328 LAC N47°00.48' W122°33.39' 329° 4.4 NM to fld. Unmonitored holidays. GR N47°09.02′ W122°36.28′ GRAYE NDB (MHW/LOM) 216 149° 4.4 NM to fld. Unmonitored holidays. ILS/DME 108.3 I-GRF Chan 20 LOM GRAYE NDB Unmonitored holidays. Rwv 15 PAR Opr Mon-Fri 1600-0759Z‡ except federal holidays. COMM/NAV/WEATHER REMARKS: All rotary wing acft ctc Bullseye Radio prior to entry R6703A-D. GRAYE N47°09.02′ W122°36.28′. NOTAM FILE GRE SEATTLE NDB (MHW/LOM) 216 GR 351° 7.2 NM to Tacoma Narrows. Unmonitored holidays. L-1D **GREENWATER** RANGER CREEK (21W) 10 SE UTC-8(-7DT) N47°00.77′ W121°32.02′ SEATTLE 2650 NOTAM FILE SEA RWY 15-33: H2875X30 (ASPH) RWY 15. Trees RWY 33: Trees AIRPORT REMARKS: Unattended. Arpt CLOSED Oct 1 to Jun 1. Pedestrians, vehicles and animals invof rwy. Rwy 15-33 pavement has cracks and loose rocks on rwy. USFS campgrounds east and north of rwy. COMMUNICATIONS: CTAF 122 9 **GROVE FLD** (See CAMAS) HARVEY FID (See SNOHOMISH)

(H) VORTACW 117.7

HOQUIAM N46°56.82' W124°08.96' NOTAM FILE HOM.

Chan 124

HOM

062° 8.9 NM to Bowerman, 10/19E, HIWAS.

SEATTLE H-1A, L-1D

RCO 122.2 (SEATTLE RADIO)

SEATTLE.

ΙΔΡ

H-1A. L-1D

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HOQUIAM

BOWERMAN (HQM) 2 W UTC-8(-7DT) N46°58.27′ W123°56.19′

18 B S4 FUEL 100LL, JET A1+ LRA NOTAM FILE HOM RWY 06-24: H5000X150 (ASPH) S-30, D-40, DT-80 HIRL

RWY 06: REIL. VASI(V4R)-GA 3.0° TCH 52'. Tree. Rgt tfc.

RWY 24: MALSR. VASI(V4L)-GA 3.0° TCH 50'.

AIRPORT REMARKS: Attended Mon-Fri 1700-0100Z‡. 100LL avbl 24 hrs a day with Credit Card. For Jet A call 360-533-6655 between 1700-0100Z‡ or call 360-310-0201 between 0100-1700Z‡. Flocks of waterfowl on and in vicinity of arpt. Service road south of rwy in primary surface. Ultralights prohibited without written permission from arpt manager, ACTIVATE HIRL Rwv 06-24, MALSR

Rwy 24 and REIL Rwy 06-CTAF. WEATHER DATA SOURCES: ASOS 135.775 (360) 538-7021. HIWAS 117.7

COMMUNICATIONS: CTAF/UNICOM 122.7

RCO 122.2 (SEATTLE RADIO)

ном.

SEATTLE CENTER APP/DEP CON 128.3

AIRSPACE: CLASS E svc 1400-0600Z± other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE HQM.

HOQUIAM (H) VORTACW 117.7 HOM Chan 124 N46°56.82'

W124°08 96' 062° 8.9 NM to fld. 10/19E. HIWAS.

ABERN NDB (LOM) 236 HO N46°59.26′ W123°47.86′ 241° 5.8

NM to fld. LOM unusable 150°-180° byd 10 NM.

IIS/NMF 108 7 I-HOM Chan 24 Rwy 24 LOM ABERN NDB. LOM unusable 150°-180° byd 10 NM.

HOSKINS FLD (See OLYMPIA)

ILWACO

PORT OF ILWACO (7W1) 2 E UTC-8(-7DT) N46°18.90′ W124°00.23′

SEATTLE

B NOTAM FILE SEA

RWY 10-28: H2080X50 (ASPH) S-5 MIRI

RWY 28: PAPI(P2L)—GA 4.0°. Thid dspicd 300'. Road. RWY 10. Road

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 10-28-CTAF.

COMMUNICATIONS: CTAF 122.9

2108 B NOTAM FILE SEA

IONE MUNI (\$23) 2 S UTC-8(-7DT) N48°42.48′ W117°24.78′

SEATTLE. L-13B

RWY 15-33: H4059X45 (ASPH) MIRL

RWY 15: Fence. RWY 33: PAPI(P2L)-GA 3.0° TCH 35'. Road.

AIRPORT REMARKS: Unattended. Wildlife invof rwy. MIRL Rwy 15-33 pilot controlled lighting med and high ints out of svc indefinitely. ACTIVATE MIRL Rwy 15-33-CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE GEG

SPOKANE (H) VORTACW 115.5 GEG Chan 102 N47°33.90′ W117°37.61′ 346° 69.2 NM to fld. 2755/21E.

NDB (MHW) 379 ION N48°42.61′ W117°24.82′ at fld. NOTAM FILE SEA. VFR use only.

HELIPAD H1: H60X60 (CONC)

JEFFERSON CO INTL (See PORT TOWNSEND)

JUMP-OFF-JOE N46°06.24' W119°07.92'

SEATTLE. L-13A

KAHLOTUS

LOWER MONUMENTAL STATE (WØ9) 5 S UTC-8(-7DT) N46°33.03′ W118°32.18′ SEATTLE

NOTAM FILE SEA

RCO 122.4 (SEATTLE RADIO)

RWY 01-19: 3300X50 (GRVL)

RWY 01: Tower. Rwv 19. P-line

AIRPORT REMARKS: Unattended. CLOSED Oct 1 thru Jun 1. Multiple power lines 0.4 mi NNE of arpt. Rwy marked with retro reflective devices. Rwy 01-19 has steep canyon walls N, E and S. Pedestrians, vehicles and animals on or invof rwy. Contact Washington State Aviation Division 360-651-6300 or 1-800-552-0666 for facility information prior to using.

KELSO N46°09.33' W122°54.76' NOTAM FILE KLS

NDB (MHW) 256 LSO 144° 2.3 NM to Southwest Washington Rgnl.

NDB unusable 020°-120°, 120°-180° byd 15 NM, 180°-340° byd 10 NM.

KELSO

SOUTHWEST WASHINGTON RGNL (KLS) 2 SE UTC-8(-7DT) N46°07.08' W122°53.90'

20 B S4 FUEL 100LL JET A LRA NOTAM FILE KLS

RWY 12-30: H4391X100 (ASPH) S-38, D-46, DT-74 MIRL (NSTD)

RWY 12: REIL, PAPI(P4L)—GA 4.0° TCH 37', Trees, Rgt tfc.

RWY 30: REIL, PAPI(P4R)—GA 4.0° TCH 40', Trees.

AIRPORT REMARKS: Attended Winter 1600-0100Z‡, Summer

1600-0200Z‡. 24 hr self-service credit card fuel facility. Numerous flocks of birds on and invof arpt, Rwy 12-30 NSTD

spacing MIRL. ACTIVATE MIRL Rwy 12-30-CTAF. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: AWOS-3 135,075 (360) 577-1964.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.25 (SEATTLE RADIO)

RCO 122.55 (SEATTLE RADIO)

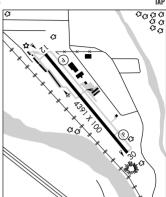
R SEATTLE CENTER APP/DEP CON 124.2

RADIO AIDS TO NAVIGATION: NOTAM FILE PDX.

BATTLE GROUND (H) VORTACW 116.6 BTG Chan 113 N45°44.87' W122°35.49' 309° 25.7 NM to fld. 253/21E.

KELSO NDB (MHW) 256 LSO N46°09.33' W122°54.76' 144° 2.3 NM to fld. NOTAM FILE KLS.

NDB unusable 020°-120°, 120°-180° byd 15 NM, 180°-340° bvd 10 NM.



KENMORE AIR HARBOR SPB (See SEATTLE)

KENMORE AIR HARBOR INC SPB 1 S UTC-8(-7DT) N47°45.29′ W122°15.56′ (S6Ø)

14 S4 FUEL 100LL. JET A LRA NOTAM FILE SEA

WATERWAY 16-34: 10000X1000 (WATER)

WATERWAY 18-36: 3000X1000 (WATER)

SEAPLANE REMARKS: Attended dawn-dusk. Unlighted crane 75' AGL and pilings 6' above water Waterway 18 8 buoys mark 5 miles per hour speed limit area. Landing zone-unlgtd; seaplanes exempt from 5 miles per hour speed limit. Surface watercraft entering operating area from within channel E of waterway 16-34. Flight Notification Service (ADCUS) available.

COMMUNICATIONS: CTAF/UNICOM 122.7

KENNEWICK

VISTA FLD (S98) 3 NW UTC-8(-7DT) N46°13.12′ W119°12.60′

B S4 FUEL 100LL, JET A TPA-1334 (800) NOTAM FILE SEA

RWY 02-20: H4008X150 (ASPH) S-26 MIRI

RWY 02: PAPI(P2L), P-line. RWY 20: PAPI(P2L). Pole.

AIRPORT REMARKS: Attended Mon-Sat 1600-0200Z‡. Use Rwy 02 when wind 5 knots or less. ACTIVATE MIRL Rwv 02-20-CTAF.

Parachute lumping

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE PSC.

PASCO (L) VORW/DME 108.4 PSC Chan 21 N46°15.78 216° 4.8 NM to fld. 400/20E. W119°06.94'

Car Dealership

SEATTLE

SEATTLE

L-1C

IAP

SEATTLE

SEATTLE

L-13A

KENT

CREST AIRPARK (\$36) 5 SE UTC-8(-7DT) N47°20.23′ W122°06.21′

472 B S4 FUEL 100LL TPA-1472(1000) NOTAM FILE SEA

RWY 15-33: H3288X40 (ASPH) S-12 LIRL

RWY 15: Trees. RWY 33: Thid dspicd 281'. Trees.

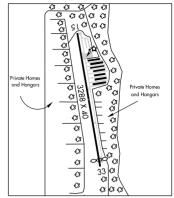
AIRPORT REMARKS: Attended Apr-May Sep-Oct 1600-0230Z‡, Jun-Aug 1600-0330Z‡, Nov-Mar 1600-0130Z‡. 24 hr credit card fuel avbl. Arpt CLOSED when snow on rwy. Night ops use Rwy 15, wind

and weather permitting. Trees on both sides of Rwv 15-33.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

SEATTLE (H) VORTACW 116.8 SEA Chan 115 N47°26.12' 106°10.3 NM to fld. 354/19E.



KITSAP N47°29.54′ W122°45.40′ NOTAM FILE PWT.

NDB (MHW) 206 PWT at Bremerton National.

NDB unusable 210°-310° byd 12 NM.

KLICKITAT N45°42.81′ W121°06.05′ NOTAM FILE DLS.

(H) VORW/DME 112.3 LTJ Chan 70 185° 6.4 NM to Columbia Gorge Rgnl/The Dalles Muni. H-1B. L-13A

3220/21E. HIWAS.

LACOMAS N47°00.48′ W122°33.39′. NOTAM FILE GRE

NDB (MHW) 328 LAC 339° 15.6 NM to Tacoma Narrows. Unmonitored holidays.

SEATTLE L-1D

SEATTLE

SEATTLE

I = 1D

SEATTLE

L-1D

LAKE CHELAN (See CHELAN)

LAKE WENATCHEE STATE (See LEAVENWORTH)

LANGLEY

WHIDBEY AIR PARK (W1Ø) 2 SW UTC-8(-7DT) N48°01.05′ W122°26.26′

SEATTLE

NOTAM FILE SEA

RWY 16-34: H2470X25 (ASPH)

RWY 34: Tree

AIRPORT REMARKS: Unattended. COMMUNICATIONS: CTAF 122.9

LAURIER

AVEY FLD STATE (69S) 2 SW UTC-8(-7DT) N48°59.90′ W118°13.36′

SEATTLE

1655 LRA NOTAM FILE SEA

RWY 17-35: 1975X40 (GRVL)

RWY 17: Trees. RWY 35: Trees.

AIRPORT REMARKS: Unattended. CLOSED yearly 1 Oct-1 June. Vehicles, pedestrians and animals on and in vicinity of rwy. Rwy marked with retro-reflective devices. Shoulders very soft and rough both sides of rwy. Ctc Washington State Division of Aeronautics 360-651-6300 or 1-800-552-0666 for facility information prior to use. Canadian and U.S. customs available on hwy to the west. U.S. based acft should park on the U.S. side of ramp (south) and Canadian based acft should park on north side of ramp.

LEAVENWORTH

LAKE WENATCHEE STATE (27W) 14 NW UTC-8(-7DT) N47°49.17′ W120°43.19′

SEATTLE

1939 NOTAM FILE SEA **RWY 09-27:** 2473X100 (TURF)

RWY 09: Road. RWY 27: Road.

AIRPORT REMARKS: Unattended. CLOSED yearly 1 Oct-1 June. Pedestrians, vehicles and animals in vicinity of rwy.

Contact Washington State Aviation Division 360-651-6300 or 800-552-0666 for facility information prior to

COMMUNICATIONS: CTAF 122.9

LESTER STATE (15S) 2 E UTC-8(-7DT) N47°12.91′ W121°27.74′

SEATTLE

1693 NOTAM FILE SEA

RWY 05U-23U: 400X100 (TURF)

RWY 05U: Tree. RWY 23U: Tree.

AIRPORT REMARKS: Unattended. Arpt CLOSED to fixed wing acft indef. Rwy 05U-23U CLOSED indef due to severe erosion from river. Vehicles, pedestrians and animals on and in vicinity of rwy. Ctc Washington State Division of Aeronautics 206-764-4131 or 1-800-552-0666 for facility information prior to use. Rwy 05U-23U sfc rough. Rwy surface not maintained—very tall grass and weeds.

COMMUNICATIONS: CTAF 122.9

LIND (ØSØ) 2 NE UTC-8(-7DT) N46°58.61′ W118°35.23′

MIRL

SEATTLE L-13A

1507 B NOTAM FILE SEA

RWY 05-23: H3197X50 (ASPH) RWY 23: Hill.

AIRPORT REMARKS: Unattended. Brush encroachment along rwy edges. Brush around rwy lights. Intersection of twy and entrance road breaking up. Rwy 05–23 spalling along rwy edges, Rwy 23 turnaround area broken up and obscured by brush. East end of rwy has 800' by 50' dirt graded safety area. Rwy 05–23 MIRL OTS indef. Arpt rotating bon OTS indefinitely.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MWH.

MOSES LAKE (H) VORW/DME 115.0 MWH Chan 97 N47°12.65′ W119°19.01′ 097° 33.0 NM to fld. 1194/18E.

LITTLE GOOSE LOCK AND DAM (See STARBUCK)

LOPEZ ISLAND (S31) 3 S UTC-8(-7DT) N48°29.04′ W122°56.26′

SEATTLE

209 B NOTAM FILE SEA

RWY 16-34: H2904X60 (ASPH) S-12.5 LIRL

RWY 16: PAPI(P2L)—GA 4.0° TCH 40'. Trees. Rgt tfc. RWY 34: REIL. PAPI(P2L)—GA 4.0° TCH 32'. Trees.

AIRPORT REMARKS: Unattended. Rwy 16-34 soft shoulders and thids.

COMMUNICATIONS: CTAF 128.25

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

NDB (MHW) 356 OPZ N48°28.76′ W122° 55.26′ at fld. VFR only.

LOST RIVER RESORT (See MAZAMA)

LOWER GRANITE STATE (See COLFAX)

LOWER MONUMENTAL STATE (See KAHLOTUS)

LYNDEN (38W) 1 N UTC-8(-7DT) N48°57.35′ W122°27.49′

SEATTLE

106 B FUEL 100LL NOTAM FILE SEA

RWY 07-25: H2425X40 (ASPH) S-12 MIRL (NSTD)

RWY 07: PAPI(P2L)—GA 3.0° TCH 15'. Thid dsplcd 262'. Fence.

RWY 25: PAPI(P2R)—GA 6.0° TCH 15'. Thid dsplcd 433'. Road.

AIRPORT REMARKS: Unattended. Automated credit card system for fuel. 1850' between thid lgts, Rwy 07 thid lgts located 134' prior to dspicd thid. No white/red lgts past dspicd thid. Rwy 07 thid relocated 155' for ngt ops, Rwy 25 thid relocated 434' for ngt ops. 1871' usable for ngt ops. Ngt ldgs should be performed on Rwy 07—winds permitting. ACTIVATE MIRL Rwy 07–25 and rotating beacon—CTAF.

MANSFIELD (8W3) 0 E UTC-8(-7DT) N47°48.56′ W119°38.22′

2272 B NOTAM FILE SEA

RWY 03-21: H2570X46 (ASPH) MIRL RWY 03: Pole RWY 21. Road

AIRPORT REMARKS: Unattended. Possible turbulence from grain elevators N side of arpt.

COMMUNICATIONS: CTAF 122.9

MARTIN FLD (See COLLEGE PLACE)

MASON CO N47°14.89′ W123°05.18′. NOTAM FILE SHN.

232° 2.7 NM to Sanderson Fld. Unmonitored. NDB (MHW) 348 MNC

NDB unusable 280°-340°bevond 20 NM.

MATTAWA

DESERT AIRE (M94) 3 SW UTC-8(-7DT) N46°41.24′ W119°55.18′

586 B NOTAM FILE SEA

RWY 10-28: H3665X34 (ASPH) MIRL

RWY 10: Building. RWY 28: PAPI(P2L) GA 4.0° TCH 45'. Ground. Rgt tfc.

AIRPORT REMARKS: Unattended. Rwy 10 preferred low wind rwy (less than 5 kts). No touch and go landings prior to 0800. Noise abatement take-off procedure posted at arpt. Twy marked with retro-reflective devices. ACTIVATE MIRL Rwv 10-28 and rotating bcn-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MWH.

MOSES LAKE (H) VOR/DME 115.0 MWH Chan 97 N47°12.65′ W119°19.01′ 200° 40 NM to fld.

1194/18E.

MAZAMA

LOST RIVER RESORT (W12) 5 NW UTC-8(-7DT) N48°38.98′ W120°30.12′

SEATTLE

SFATTI F

SEATTLE

SEATTLE

L-13A

I_1D

2415 NOTAM FILE SEA

RWY 11-29: 3150X85 (TURF-GRVL)

RWY 11: Road. Rgt tfc. RWY 29: Road.

AIRPORT REMARKS: Unattended. CAUTION: Watch for vehicles on rwy. Arpt CLOSED 1 Nov thru 1 Apr. Rwy 29 white arrow in clear areas approximately 100' from thld.

HIRL (NSTD) CL

(TCM)(KTCM)

RWY 16-34: H10108X150 (ASPH-CONC-GRVD)

322 B TPA—See Remarks

PCN 55 R/R/W/T

MC CHORD AFR

MEARS FLD

(See CONCRETE)

```
RWY 16: ALSF1. PAPI(P4L). 0.4% up.
                                            RWY 34: ALSF2. TDZL. PAPI(P4R). Rgt tfc.
  RWY 160-340: H3000X60 (ASPH)
                                   ST-175
  ARRESTING GEAR/SYSTEM
    RWY 16 ← HOOK E5 (240' OVRN) HOOK BAK-12B(B) (2450')
                                                      HOOK BAK-12B(B) (1668') HOOK E5 (102' OVRN) →) RWY 34
  MILITARY SERVICE: LGT Visual TCH set for height group 3 acft only. Rwy 16-34 center 72' thld lgt removed. PAPI GS
    not coincidental with ILS GS. AMP-1/AMP-3 Overt/Covert assault strip lights installed in middle 5000' Rwy
    16-34, A-GEAR When Rwy 16-34 activated, apch end E5 is removed, Rwy 16-34 BAK-12B 30 minute prior notice
    rgr to connect cable. JASU (MD-3M) 1(MD-3) 1(MA-1A) (AM32A-60) 1(MC-11)
                                                                               FIIFI 18
                                                                                           FILIIN SP PRESAIR
    De-ice—Expect 3 hr delay. LHOX LOX 01L 0-128-133-148-156 SOAP. SOAP results rgr 24 hr, weekdays
    (1530-0030Z‡) except holidays, results not avbl other times. Tran acft req SOAP will arrive with historical
    engine SOAP data for trend analysis. TRAN ALERT Opr 24 hr. Delays can be expected. Parking limited.
  MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Information. RSTD PPR includes scheduled AMC missions due
    to limited ramp space, tran acft parking extremely ltd. 24 hr prior coordination req, Base OPS DSN 382-5611,
    C253-982-5611. All inbound acft must ctc Command Post no later than 30 min prior to ldg. AMC acft opr rstd
    during Bird Watch Condition Moderate (tkf and ldg permission only when dep/arr route avoid identified bird
    activity, no local IFR/VFR tfc pattern activity) and Severe (tkf and ldg prohibited without OG/CC approval), ctc
    PTD/ATIS/Command Post for current Bird Watch Condition. Tran aircrews conducting local area low-level
    training missions must receive local procedure/rstd briefing from 62 OSS/OSK at DSN 382-3615,
    C253-982-3615. CAUTION When performing pre-tkf engine runup, align acft so that debris is not blown toward
    ADTAC alert hangar or adjacent acft parking ramp. During VFR conditions, acft making low apch, normal tkf,
    touch and go ldg, or missed anch remain at or below 1800' until dep end of the rwy. Bird hazard, South end rwy
    not visible from official wx station obsn point. When fog/low clouds are present over apch end Rwv 34, condition
    report from obsn point may not be representative. TFC PAT Before Idg maintain tfc pattern altitude commensurate
    with safety as long as practicable, TPA—Rectangular 1800' (1478) overhead 2300'(1978), MISC Aircrews notify
    PTD anytime they plan to delay in local IFR pattern on separate clearance prior to or departure on filed flt plan.
    Base OPS DSN 382-5611, C253-982-5611. South 1000' Rwy 16-34 is concrete, rwy is grvd. Afld wx
    monitored by the AN/FMQ-19 Automated Observing System and augmented by human observer when wx flt fcst
    on duty, DSN 312-382-3434/5005 C 253-982-3434/5005, Opr Wx Squadron 25 OWS, Davis-Monthan AFB.
    DSN 312-228-6596/6599 C 520-228-6598/6599. Toll free 1-877-451-8367.
                      D-ATIS 109.6 270.1 (DSN 382-2847 C 253-982-2847.) PTD 372.2
  COMMUNICATIONS: SEA
 (R) SEATTLE APP/DEP CON 126.5 391.9
    TOWER 124.8 259.3 109.6T
                                GND CON 118.175 279.65
    COMD POST 134.1 349.4 (134.1 Commercial contract acft only)
                                                                   PMSV MFTR0 342 3 PMSV svc avbl only when wx
      flt fcst on duty. Wx obsn avbl H24 via automated obsn sys. Wx flt fcst on duty normal wing flying hrs and msn
      C-17 limiting criteria DSN 253-382-3434, C253-982-3434. During wx flt closures remote briefing svc avbl
      from 25 Op Wx Flt Squadron DSN 312-228-6598/6599/6588.
      Unusable 095°-102° byd 34 NM blo 9400'.
  RADIO AIDS TO NAVIGATION: NOTAM FILE TOM
                             Chan 33 N47°08.86′ W122°28.50′
    (T) VORTAC 109.6
                     TCM
                                                                     at fld. 284/22E. No NOTAM MP Thu
      0700-1400Z±.
                      VOR unusable 235°-325° byd 10 NM.
                                     Back course unusable. No NOTAM MP Wed and Fri 0700-1400Z‡.
    ILS 109.9
               I-MAR
                         Rwy 16.
    IIS X 108 5
                I-TCM
                          Rwy 34.
                                      Back course unusable. Rwy 34 localizer critical area not protected. No
      NOTAM MP Wed and Fri 0700-1400Z‡.
    ILS Y 108.5
                  I-TCM
                          Rwy 34.
                                      Back course unusable. Rwy 34 localizer critical area not protected. No
      NOTAM MP Wed and Fri 0700-1400Z±.
MEAD FLYING SERVICE (7ØS)
                                1 N UTC-8(-7DT) N47°47.23' W117°21.49'
                                                                                                        SEATTLE
  1905 TPA-2505(600)
                             NOTAM FILE SEA
  RWY 16-34: H2481X30 (ASPH)
    RWY 16: Trees.
                         RWY 34: Trees
  AIRPORT REMARKS: Attended continuously. No winter maintenance.
  COMMUNICATIONS: CTAF 122.9
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AF 3 S UTC-8(-7DT) N47°08.26′ W122°28.59′

AOE Class I, ARFF Index Ltd. NOTAM FILE SEA Not insp.

S-155, D-220, DT-390, DDT-800

SFATTLE

DIAP. AD

H-1R I-1D

METALINE FALLS

SULLIVAN LAKE STATE (Ø9S) 3 SE UTC-8(-7DT) N48°50.45′ W117°17.04′

SEATTLE

2614 NOTAM FILE SEA RWY 16-34: 1765X150 (TURF)

RWY 16: Trees. RWY 34: Road.

AIRPORT REMARKS: Unattended. Arpt CLOSED 1 Oct-1 June. Pedestrians, vehicles and animals on and in vicinity of rwy. Watch for ground squirrel holes in rwy. Rwy 16–34 surface rough. For rwy conditions prior to use call 260, 651, 6300 or 1, 200, 655, 670, or word strong report Pwy 16, 24 and 5.

360-651-6300 or 1-800-552-0666. Ground drops rapidly beyond Rwy 16-34 ends.

COMMUNICATIONS: CTAF 122.9

METHOW VALLEY STATE (See WINTHROP)

MONROE

FIRSTAIR FLD (W16) 2 NW UTC-8(-7DT) N47°52.28′ W121°59.72′

SEATTLE

50 S4 FUEL 100 NOTAM FILE SEA

RWY 07-25: H2087X34 (ASPH)

RWY 07: Tree. Rgt tfc. RWY 25: Thid dsplcd 500'. Pole.

AIRPORT REMARKS: Attended Oct-Mar 1700Z‡-dark, Apr-Sept 1700-0300Z‡. Parachute Jumping. Transient tie downs have no ropes—pilots must supply own. Additional transient parking avbl SE corner of rwy. Rwy 25 acft parked in primary surface.

COMMUNICATIONS: CTAF 122.9

MORTON

STROM FLD (39P) 0 SE UTC-8(-7DT) N46°33.02′ W122°16.00′

SEATTLE

941 B NOTAM FILE SEA

RWY 07-25: H1810X40 (ASPH) MIRL

RWY 07: Thid dsplcd 200'. Trees. RWY 25: Trees.

AIRPORT REMARKS: Unattended. Trees near Rwy. Deer and elk on and invof rwy. ACTIVATE MIRL Rwy 07–25—CTAF. ACTIVATE rotating bcn—CTAF.

COMMUNICATIONS: CTAF 122.9

MOSES LAKE N47°12.65′ W119°19.01′ NOTAM FILE MWH.

SEATTLE

(H) VORW/DME 115.0 MWH Chan 97 at Grant Co. Intl. 1194/18E. RCO 122.4 (SEATTLE RADIO)

H-1B, L-13A

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MOSES LAKE
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GRANT CO INTL (MWH) 5 NW UTC-8(-7DT) N47°12.52′ W119°19.15′

SEATTLE

1189 B S4 FUEL 100, 100LL, JET A1 OX 1 ARFF Index—See Remarks NOTAM FILE MWH H-1B, L-13A RWY 14L-32R: H13503X200 (ASPH-CONC-GRVD) S-85, D-155, ST-175, DT-320, DDT-600 IAP, AD

RWY 14L: REIL. VASI(V6L)-GA 3.0° TCH 52'. Bldg.

RWY 32R: MALSR. PAPI(P4L)-GA 3.0° TCH 75'. Rgt tfc.

RWY 04-22: H10000X100 (ASPH-CONC-GRVD) S-75, D-100, ST-127, DT-175, DDT-475 MIRI

RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 50'. 0.4% down.

RWY 22: REIL. VASI(V4L)—GA 3.0° TCH 50'. Rgt. tfc. 0.3% up

RWY 09-27: H3500X90 (CONC-GRVD) S-100, D-150, DT-270. DDT-475 RWY LGTS (NSTD) 0.3% up NW

RWY 27: Rgt tfc.

RWY 18-36: H3327X75 (ASPH) S-75, D-170, ST-175, DT-300, DDT-400 MIRL

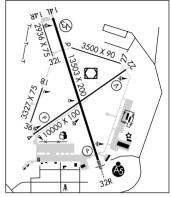
RWY 18: Rgt tfc.

RWY 14R-32L: H2936X75 (CONC) S-100, D-200, ST-175,

DT-400, DDT-400 RWY 14R: Ground, Rgt tfc.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 04	14L-32R	4700
RWY 14L	04-22	7550
RWY 22	14L-32R	4650
RWY 32R	04-22	5050



AIRPORT REMARKS: Attended continuously. Rwy 09-27 CLOSED except military ops. Rwy 14R-32L is CLOSED to all night ops except taxiing. Rwy 14L-32R is CLOSED nights 0600-1400Z‡ except for special military night training operations. Flocks of large birds in vicinity of arpt. Class I. ARFF Index A. PPR for air carrier ops with more than 30 passenger seats 0600-1400Z‡ or for additional ARFF index level svc call arpt manager 509-762-5363/5304. Rwy 09-27 used as assault strip by C-17 acft. Rwy 09-27 and Twy F not visible from

the twr. Rwv 18-36 available as air carrier twy movement area only. Rwv 09-27 military landing zone lights only. Rwy distance markers Rwy 14L-32R and Rwy 04-22. Rwy 14L-32R first 10,000' apch end of Rwy 32R grvd 150' wide. Twy G unlighted. Extensive heavy military jet acft night training 1900 PM-0300 AM local daily. Announce landing intentions on CTAF after twr closed. Heavy jet training surface to 5000' within 25 miles of arpt, possible wake turbulence from larger acft using Rwy 14L-32R. Rwy 14L-32R NSTD HIRL located 50' from rwy edge markings, ACTIVATE MALSR Rwy 32R-CTAF,

WEATHER DATA SOURCES: ASOS (509) 762-5082. LAWRS.

COMMUNICATIONS: CTAF 118.25 ATIS 119.05 UNICOM 122.95

MOSES LAKE RCO 122.4 (SEATTLE RADIO)

(R) APP/DEP CON 126.4 134.35 (1400-0600Z‡) SEATTLE CENTER APP/DEP CON 126.1 (0600-1400Z‡)

TOWER 128.0 (WEST) 118.25 (EAST) (1400-0600Z‡) GND CON 121 9

AIRSPACE: CLASS D svc 1400-0600Z t other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE MWH.

MOSES LAKE (H) VORW/DME 115.0 MWH Chan 97 N47°12.65′ W119°19.01′ at fld. 1194/18E. PELLY NDB (MHW/LOM) 408 MW N47°06.94′ W119°16.47′ 324° 5.9 NM to fld. Unmonitored when tower

ILS 109.5 I-MWH Rwy 32R. Class IE LOM PELLY NDB. Unmonitored when tower closed.

MOSES LAKE MUNI (W2Ø) 2 NE UTC-8(-7DT) N47°08.52′ W119°14.27′

SEATTLE

1203 B S4 FUEL 100LL NOTAM FILE SEA S-8 MIRI

RWY 16-34: H2513X50 (ASPH)

RWY 16: PAPI (P2L)—GA 3.0°ThId dsplcd 466'. Tree. RWY 34: PAPI(P2L)—GA 3.0°. Thid dsplcd 253'. Rgt

AIRPORT REMARKS: Attended 1600-0100Z‡. Fuel avbl only Mon-Fri 1600-0100Z‡. Extensive ultralight traffic using 500' pattern. Extensive agriculture opr in progress. Bird hazard. Agricultural ops traffic and ultralight traffic on field. Ultralight opr requested to obtain airport safety briefing from airport management prior to initial use of airnort

COMMUNICATIONS: CTAF/UNICOM 123.0

MT CONSTITUTION N48°40.79' W122°50.48' RCO 122.3 (SEATTLE RADIO)

SEATTLE L-1D

MT VERNON (See BURLINGTON/MT VERNON)

SFATTI F

L-1E

NOLLA N47°37.95′ W122°23.37′. NOTAM FILE BFI. SEATTLE. NDB (LOM) 362 BF 130° 7.1 NM to Boeing Fld/King Co Intl. I-1D

OAK HARBOR

AJ EISENBERG (OKH) 3 SW UTC-8(-7DT) N48°15.09′ W122°40.42′

193 B S2 FUEL 100LL, MOGAS NOTAM FILE 76S

RWY 07-25: H3265X25 (ASPH) S-5 LIRL (NSTD) 1.6% up E RWY 07: PAPI(P2L)—GA 4.5°. Thid dsplcd 507'. Fence. Rgt tfc.

RWY 25: PAPI(P2L)-GA 4.5°. Trees.

AIRPORT REMARKS: Unattended. Rwy 07-25 NSTD LIRL only W 2620' rwy lgtd. Rwy 07-25 severely cracked, spalling in some areas.

PPR for Ultralights and Gliders ctc arpt manager phone 360-929-6802 or 1-866-429-2132, ACTIVATE NSTD LIRL Rwy 07-25-CTAF. PAPI Rwy 07 and Rwy 25 opr 24 hrs.

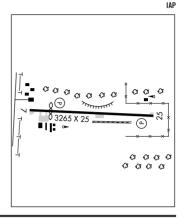
WEATHER DATA SOURCES AWOS-3 132.775 (360) 675-8431

COMMUNICATIONS: CTAF/UNICOM 122.8 ATIS 134.15 (Thru Whidbey Island NAS/Ault Fld)

R WHIDBEY APP/DEP CON 118.2

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

PENN COVE (L) VORW/DME 117.2 CVV Chan 119 N48°14.68' W122°43.47' 060° 2.1 NM to fld. 200/19E.



OCEAN SHORES N47°00.49' W124°09.33'

RCO 122.4 (SEATTLE RADIO)

13 B

OCEAN SHORES MUNI (WØ4) 2 NE UTC-8(-7DT) N46°59.95′ W124°08.54′

SEATTLE L-1D

SEATTLE

SEATTLE

L-1D

NOTAM FILE SEA RWY 15-33 H3100X50 (ASPH)

S-12.5 LIRL

RWY 15: SAVASI(S2L)—GA 3.5° TCH 22'. RWY 33: SAVASI(S2L)-GA 3.5° TCH 22'. Trees. Rgt tfc.

AIRPORT REMARKS: Unattended. Arpt CLOSED SS to SR. Seabirds in safety and taxi areas and adjacent wetlands. Rwy 15-33 has asph 50' wide with 12.5' grvl shoulders. Parking ramp loose gravel on surface. Twys very soft when wet. ACTIVATE LIRL Rwy 15-33 and SAVASI Rwy 15 and Rwy 33-122.8.

COMMUNICATIONS: CTAF 122.9

RCO 122.4 (SEATTLE RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE HOM.

HOQWAM (H) VORTACW 117.7 HOM Chan 124 N46°56.82′ W124°08.96′ 346° 3.1 NM to fld. 10/19E. HIWAS.

ODESSA MUNI (43D) 1 N UTC-8(-7DT) N47°20.85′ W118°40.63′

1737 B NOTAM FILE SEA

RWY 02-20: H3125X60 (ASPH) S-5 MIRL

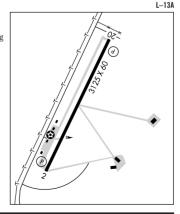
RWY 02: PAPI(P2L). RWY 20: PAPI(P2L). Brush.

AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 02-20 and rotating bcn-122.8.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68' W119°25.44' 072° 30.5 NM to fld. 1250/21E.



168 WASHINGTON

 OKANOGAN LEGION
 (\$35)
 1 E
 UTC-8(-7DT)
 N48°21.72′ W119°34.05′
 \$EATILE

 1042
 B
 \$2
 FUEL 100LL
 NOTAM FILE SEA
 L-13A

RWY 04–22: H2533X36 (ASPH) S–6 MIRL

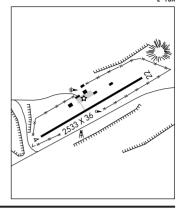
RWY 22: Rgt tfc.

AIRPORT REMARKS: Unattended. Fuel by request, call 509–429–2597, 206–915–4433, 509–422–3071, 509–322–4710. ACTIVATE MIRI Rwy 04–22 CTAF

COMMUNICATIONS: CTAF/UNICOM 122 8

RADIO AIDS TO NAVIGATION: NOTAM FILE GEG.

SPOKANE (H) VORTACW 115.5 GEG Chan 102 N47°33.90′ W117°37.61′ 281° 91.7 NM to fld. 2755/21E. **HIWAS**.



OLYMPIA

HOSKINS FLD (44T) 5 SE UTC-8(-7DT) N46°59.56′ W122°49.66′

SEATTLE

213 NOTAM FILE SEA

RWY 07-25: 2015X116 (TURF)

RWY 07: Trees. RWY 25: Trees.

AIRPORT REMARKS: Unattended. No helicopters. No ultralights. Noise abatement procedures in effect; call arpt manager 360–491–6723. Geese and ducks on and invof arpt. Mole hills west end. Recommend land Rwy 07, depart 25 when wind condition permits. Rwy 07–25 no line of sight between rwy ends.

COMMUNICATIONS: CTAF 122.9

OLYMPIA RGNL (OLM) 4 S UTC-8(-7DT) N46°58.16′ W122°54.15′

209 B S4 **FUEL** 80, 100, 100LL, JET A OX 1, 3, 4 LRA NOTAM FILE OLM **RWY 17-35**: H5501X150 (ASPH-GRVD) S-75, D-94, ST-87, DT-142 HIRL

SEATTLE H-1B, L-1D IAP. AD

RWY 17: MALSR. PAPI(P4L)—GA 3.0° TCH 54'.

RWY 35: REIL. PAPI(P4L)-GA 3.0° TCH 54'. Rgt tfc.

RWY 08-26: H4157X150 (ASPH) S-30

RWY 08: Rgt tfc. RWY 26: Tree.

AIRPORT REMARKS: Attended 1600–0200Z‡. Twy Igts on Twy W, Twy A, Twy G, Twy L and Twy B. When twr clsd ACTIVATE HIRL Rwy 17–35, MALSR Rwy 17, PAPI Rwy 17 and Rwy 35, REIL Rwy 35, twy Igts and directional signage—CTAF. Landing fee.

WEATHER DATA SOURCES: ASOS 135.725 (360) 943-1278. HIWAS 113.4 OLM.

COMMUNICATIONS: CTAF 124.4 ATIS 135.725 UNICOM 122.95

R SEATTLE APP/DEP CON 121.1

TOWER 404 4 (4000 0400

TOWER 124.4 (1600-0400Z‡) GND CON 121.6

AIRSPACE: CLASS D svc 1600-0400Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE OLM.

(H) VORTACW 113.4 OLM Chan 81 N46°58.30'

W122°54.11′ at fld. 200/19E. HIWAS.

DME unusable:

223°-258° byd 20 NM blo 4,100′

258°-283° bvd 30 NM blo 4.100'

 358° – 043° byd 10 NM blo 6,000′

358°-043° byd 20 NM blo 7,000′

ILS 111.9 I-OLM Rwy 17. Unmonitored during hours twr closed. LOC unusable byd 25° right of

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

SEATTLE.

L-13A

SEATTLE

 OMAK
 (OMK)
 3 N
 UTC-8(-7DT)
 N48°27.87′ W119°31.08′

 1305
 B
 S4
 FUEL
 100LL, JET A
 NOTAM FILE OMK

 RWY 17-35: H4667X150 (ASPH)
 S-75, D-200, DT-400
 HIRL

 RWY 17: REIL. VASI(V2L)—GA 3.0° TCH 43′.
 RWY 35: REIL. VASI(V2L)—GA 3.0° TCH 46′.

 AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z‡. Fuel avbl 24 hrs-credit card. ACTIVATE HIRL Rwy 17-35—CTAF.

 WEATHER DATA SOURCES: ASOS 118.325 (509) 826-2655.

 COMMUNICATIONS: CTAF/UNICOM 122.8

 RCO 122.2 (SEATTLE RADIO)

 SEATTLE CENTER APP/DEP CON 126.1

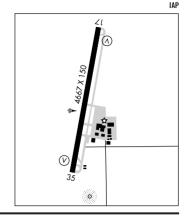
 RADIO AIDS TO NAVIGATION: NOTAM FILE GEG.

 SPOKANE (H) VORTAGW 115.5
 GEG
 Chan 102
 N47°33.90′

W117°37.61′ 306° 93.4 NM to fld. 2755/21E. HIWAS.

NDB (MHW) 219 OMK N48°27.20′ W119°31.02′ at

NOTAM FILE OMK. Unusable bvd 15 NM.



ORCAS ISLAND (See EAST SOUND)

OROVILLE

DOROTHY SCOTT (ØS7) 2 NE UTC-8(-7DT) N48°57.54′ W119°24.72′

1064 B S4 **FUEL** 100LL AOE NOTAM FILE SEA **RWY 15-33**: H4014X50 (ASPH) S-5 MIRL

RWY 15: PAPI(P2L)—GA 3.0° TCH 45'. Rgt tfc.

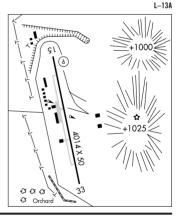
RWY 33: Road.

AIRPORT REMARKS: Attended dawn-dusk. Wildlife adjacent to rwy and twy. ACTIVATE MIRL Rwy 15-33—CTAF. Customs telephone

twy. ACTIVATE MIRL Rwy 15–33—CTAF. Customs telephone 509–476–2955. Flight Notification Service (ADCUS) available.

RADIO AIDS TO NAVIGATION: NOTAM FILE MWH.

MOSES LAKE (H) VORW/DME 115.0 MWH Chan 97 N47°12.65′ W119°19.01′ 340° 105.0 NM to fld. 1194/18E.



OTHELLO MUNI (S7Ø) 4 SE UTC-8(-7DT) N46°47.69′ W119°04.75′

1139 B FUEL 100LL, JET A NOTAM FILE SEA

RWY 07-25: H3564X45 (ASPH) MIRI

RWY 25: REIL. PAPI(P2R). Road.

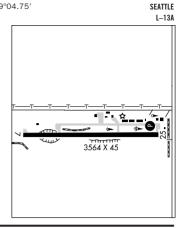
AIRPORT REMARKS: Unattended. For fuel after hours call

509-488-2544. Rwy 07 berm both sides of rwy. Farm machinery parked in primary sfc S of centerline. ACTIVATE MIRL Rwy 07-25 and PAPI Rwy 25-CTAF. REIL Rwy 25 operates 24 hrs.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE PSC.

PASCO (L) VORW/DME 108.4 PSC Chan 21 N46°15.78' W119°06.94' 343° 32.0 NM to fld. 400/20E.



PACKWOOD (55S) 0 W UTC-8(-7DT) N46°36.25′ W121°40.67′

SEATTLE

NOTAM FILE SEA 1057 B

RWY 01-19: H2356X38 (ASPH) MIRI

RWY 01: Fence. RWY 19: Trees.

AIRPORT REMARKS: Unattended. Rwy 01-19 soft shoulders both sides, use rwy for back taxi. ACTIVATE MIRL Rwy 01-19-CTAF

COMMUNICATIONS: CTAF 122.9

PAGE (See WALLA WALLA)

PAINE N47°55.19′ W122°16.67′ NOTAM FILE PAE.

SEATTLE

(L) VORW/DME 110.6 PAE Chan 43 at Snohomish Co (Paine Fld). 670/20E. H-1B, L-1D

RCO 122.55 (SEATTLE RADIO)

PANGBORN MEM (See WENATCHEE)

PASCO N46°15.78′ W119°06.94′ NOTAM FILE PSC.

SEATTLE

(L) VORW/DME 108.4 PSC Chan 21 at Tri-Cities. 404/20E. L-13A

DME portion unusable:

150°-195° beyond 35 NM below 5500';

195°-220° beyond 35 NM below 4500'.

TRI-CITIES (PSC) 2 NW UTC-8(-7DT) N46°15.88' W119°07.14'

410 B S4 FUEL 100LL, JET A1 + OX 2 TPA—See Remarks Class I, ARFF Index B NOTAM FILE PSC

SEATTLE. H-1B. L-13A IAP, AD

171

RWY 03L-21R: H7711X150 (ASPH-GRVD) S-120, D-170, ST-175, DT-320 HIRL

RWY 03L: REIL PAPI(P4L)-GA 3.0° TCH 50'. Tree.

RWY 21R: MALSR. PAPI(P4L)—GA 3.0° TCH 54'. Thid dspicd 600'. Pole. Rgt tfc.

RWY 12-30: H7703X150 (ASPH-GRVD) S-150, D-200, ST-175. DT-400 MIRL

RWY 12: REIL. VASI(V4L)-GA 3.0° TCH 56'.

RWY 30: ODALS, PAPI(P4L)—GA 3.0° TCH 54', Thid dspicd 200'.

RWY 03R-21L: H4423X75 (ASPH) S-52, D-85, ST-108, DT-150 RWY 03R: Rgt tfc. RWY 21L: Pole.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 03L: TORA-7711 TODA-7711 ASDA-7711 LDA-7711 RWY 03R: TORA-4423 TODA-4423 ASDA-4423 IDA-4423 RWY 12: TORA-7703 TODA-7703 ASDA-7503 LDA-7503 RWY 21L: TORA-4423 TODA-4423 ASDA-4423 IDA-4423

RWY 21R: TORA-7711 TODA-7711 ASDA-7711 LDA-7111 RWY 30: TORA-7703 TODA-7703 ASDA-7703 LDA-7503

AIRPORT REMARKS: Attended 1600-0400Z±. After hrs fuel call 509-547-6271 or 509-545-5524. Call out fee. Fuel 24 hour

credit card svc avbl. Waterfowl on and in vicinity of arpt spring and fall. PPR to unscheduled air carrier ops with more than 30 passenger seat call arpt manager 509-547-6352. TPA—1910(1500) turbine powered acft, all others 1410(1000). Rwy 21L and Rwy 03R not avbl as movement area for air carrier acft with more than 9 passenger seats or greater for ldg and tkf. Rwy 03R-21L is avbl for air carrier acft for taxiing during dalgt and VFR conditions only. Touchdown rwy visual range avbl for Rwy 21R. When twr clsd HIRL Rwy 03L-21R and MIRL Rwy 12-30 preset on low intensity to increase intensity and ACTIVATE MALSR Rwy 21R and ODALS Rwy 30-CTAF.

WEATHER DATA SOURCES: ASOS (509) 547-7379. LAWRS. SAWRS.

UNICOM 122.95 COMMUNICATIONS: CTAF 135.3 ATIS 125.65

JUMP-OFF-JOE RCO 122.4 (SEATTLE RADIO)

- R CHINOOK APP/DEP CON 128.75 N and W 133.15 S and E (1400-0600Z‡).
- (R) SEATTLE CENTER APP/DEP CON 132.6 (0600-1400Z‡).

CLNC DEL 120.0 TOWER 135.3 (1400-0600Z‡) GND CON 121 8

AIRSPACE: CLASS D svc 1400-0600Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE PSC.

PASCO (L) VORW/DME 108.4 PSC Chan 21 N46°15.78' W119°06.94' at fld. 404/20E.

DUNEZ NDB (LOM) 331 PS N46°20.29′ W119°00.75′ 205° 6.3 NM to fld. Unmonitored when twr clsd. ILS 108.7 I-PSC Rwy 21R. LOM DUNEZ NDB. Unmonitored when tower closed. Class IE.

PEARSON FLD (See VANCOUVER)

PELLY N47°06.94′ W119°16.47′. NOTAM FILE MWH. NDB (MHW/LOM) 408 MW 324° 5.9 NM to Grant Co. Intl. Unmonitored when tower closed. SEATTLE I-13A SEATTLE

L-1E

SEATTLE

PENN COVE N48°14.68′ W122°43.47′. NOTAM FILE SEA.

(L) VORW/DME 117.2 CVV Chan 119 N48°14.68′ W122°43.47′ 060° 2.1 NM to AJ Eisenberg. 200/19E.

DME portion unusable:

126°-160° 30 NM blo 2,200'.

250°-260° byd 30 NM blo 3,400'.

330°-360° byd 30 NM blo 2,200'.

PHORT N47°40.61′ W117°27.01′. NOTAM FILE GEG

NDB (LOM) 388 GE 207° 4.8 NM to Spokane Intl.

PIERCE CO-THUN (See PUYALLUP)

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POINT ROBERTS AIRPARK (1RL) 1 SW UTC-8(-7DT) N48°58.78′ W123°04.73′
                                                                                                         SFATTLE
       10 NOTAM FILE SEA
       RWY 16-34: 2265X125 (TURF)
         RWY 16: Brush. Rgt tfc.
         RWY 34. Brush
       AIRPORT REMARKS: Attended Apr-Oct continuously. When able land to the N and depart to the S. Traffic pattern W of
         fld over water. Noise abatement procedures in effect, contact airport manager for details at 360-945-3139.
       COMMUNICATIONS: CTAF/UNICOM 122 8
     PORT ANGELES N48°06.99' W123°29.13'
                                                                                                         SEATTLE
       RCO 122.6 (SEATTLE RADIO)
                                                                                                           L-1E
     PORT ANGELES CGAS
                          (NOW) (KNOW) CG 2 N UTC-8(-7DT) N48°08.49' W123°24.84'
                                                                                                         SEATTLE
       13 B FUEL J5 NOTAM FILE SEA
                                                                                                           I-1F
       RWY 07-25: H4500X150 (ASPH) MIRL
                                                                                                        ΙΔΡ ΠΙΔΡ
                                   FUEL J5. Avbl 1500-0000Z‡, other times Itd to search and rescue and CG
       MILITARY SERVICE: IASII 1(MD-3)
         missions. TRAN ALERT Tran acft arrive between 1500-0000Z‡ only. Ctc Port Angeles Air on 345.0 or 127.7 15 min
         prior to Idg.
       MILITARY REMARKS: RSTD CLOSED to non-CG fixed wing acft. 24 hr PPR C360-417-5840. CAUTION 150' twr 75 yards
          south of rwy, marked by strobe lgt.
       COMMUNICATIONS: CTAF/UNICOM 122.975
         SFATTLE RADIO 122 6
         PORT ANGELES AIR 127.7 345.0
       RADIO AIDS TO NAVIGATION: NOTAM FILE SEA
         EDIZ HOOK NDB (MHW) 317 K N48°08.39' W123°24.13' at fld.
          NDB unusable:
            085°-110° byd 20 NM
                                                                      180°-245° bvd 15 NM
            110°-140° byd 15 NM
                                                                      245°-340° bvd 10 NM
            140°-180° byd 10 NM
       COMM/NAV/WEATHER REMARKS: Advisory information avbl at Port Angeles Air on prior notice; other CG frequencies avbl
         on request.
       . . . . . . . .
       HELIPAD H1: H100X100 (ASPH)
PORT ANGELES
     WILLIAM R FAIRCHILD INTL (CLM) 3 NW UTC-8(-7DT) N48°07.21′ W123°29.98′
                                                                                                         SEATTLE
             B S4 FUEL 100LL, JET A OX 2 LRA NOTAM FILE CLM
                                                                                                      H-1B. L-1E
       RWY 08-26: H6347X150 (ASPH-GRVD)
                                           S-55, D-66, ST-83, DT-115
                                                                                                            IAP
         RWY 08: MALSR. VASI(V4L)-GA 3.0° TCH 47'. Trees.
         RWY 26: REIL. SAVASI(S2L)—GA 4.0° TCH 49'. Thid dspicd 1354'.
         Antenna, Rgt tfc.
       RWY 13-31: H3245X50 (ASPH)
                                   S-30 LIRL
                                                  1.4% up SE
         RWY 13: Trees
                             RWY 31: Trees. Rgt tfc.
       AIRPORT REMARKS: Attended 1500-0100Z±. For after hours Jet A call
         360-452-6206. Waterfowl and birds on and invof arpt. Increased
         bird activity due to waste landfill located ½ mile northwest AER
         08. No air carrier ops. Arpt surrendered arpt opr certificate
         12/9/05. ACTIVATE MIRL Rwy 08-26 and MALSR Rwy 08-CTAF.
       WEATHER DATA SOURCES: ASOS 135.175 (360) 457-1070.
       COMMUNICATIONS: CTAF/UNICOM 122.975
         PORT ANGELES RCO 122.6 (SEATTLE RADIO)
                                                                                               Camping/Pic
      R WHIDBEY APP/DEP CON 118.2 CLNC DEL 124.15
                                                                                                   Area
       AIRSPACE: CLASS E svc 1300-0730Z‡ other times CLASS G.
                                                                         G G
       RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.
                                                                                                             €3
                                                                                 €3
                                                                            ,
G G G G G
G G G G G
                                                                                                     0 0 0
         TATOOSH (H) VORTACW 112.2
                                 TOU Chan 59 N48°17.99'
                                                                                                             a
           W124°37.62' 081° 46.5 NM to fld. 1652/22E. HIWAS.
                                                                                        000
                                                                                                      03 03
         ELWHA NDB (MHW/LOM) 515 CL N48°09.01' W123°40.22'
              083° 7 1 NM to fld NOTAM FILE CLM
          NDB unusable 100°-235° beyond 12 NM.
         ILS 108.9
                     I-CLM
                              Rwy 08.
                                        Class IA.
                                                    LOM FLWHA NDB. Localizer unusable inside thid.
     PORT OF ILWACO
                       (See ILWACO)
```

(See POULSBO)

PORT OF POULSBO MARINA MOORAGE SPB

PORT OF WHITMAN BUSINESS AIR CENTER (See COLFAX)

PORT TOWNSEND

JEFFERSON CO INTL (ØS9) 4 SW UTC-8(-7DT) N48°03.23′ W122°48.64′

108 B S4 **FUEL** 100LL TPA—998(890) AOE NOTAM FILE SEA

RWY 09–27: H3000X75 (ASPH) S–12.5 MIRL

RWY 09: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Hill. Rgt tfc.

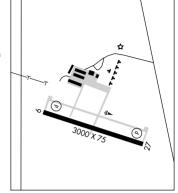
RWY 27: REIL. PAPI(P2R)—GA 3.0° TCH 30'. Tree.

AIRPORT REMARKS: Attended 1700–0100Z‡. 100LL fuel avbl 24 hrs with credit card. No cash sales. Noise abatement procedures in effect ctc arpt manager 360–385–0656. Tkf and ldg prohibited on turf next to rwy. ACTIVATE MIRL Rwy 09–27—CTAF.

COMMUNICATIONS: CTAF/AUNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE PAE.

PAINE (L) VORW/DME 110.6 PAE Chan 43 N47°55.19′ W122°16.67′ 271° 22.9 NM to fld. 670/20E.



POULSBO

PORT OF POULSBO MARINA MOORAGE SPB (83Q) O N UTC-8(-7DT)

SEATTLE

SEATTLE

SEATTLE

L-1D

N47°44.04′ W122°38.84′

00 NOTAM FILE SEA

WATERWAY 13-31: 12000X4000 (WATER)

SEAPLANE REMARKS: Attended May –Sep 1600–0330Z‡, Oct–Apr 1600–0030Z‡. Orange buoy 100' southwest of tran dock marks low tide rocks.

COMMUNICATIONS: CTAF 122.9

PROSSER (S4Ø) 1 NW UTC-8(-7DT) N46°12.80′ W119°47.48′

697 B S4 **FUEL** 100LL TPA—1497(800) NOTAM FILE SEA

RWY 07-25: H3453X60 (ASPH) S-16 MIRL

RWY 07: REIL. PAPI(P2R)—GA 3.0° TCH 20'. Trees.

RWY 25: REIL. PAPI(P2L)—GA 4.0° TCH 26'. Tree. Rgt tfc.

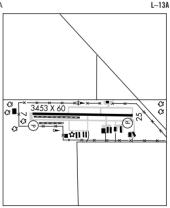
AIRPORT REMARKS: Attended 1700–0100Z‡. Twys marked for night operations with retro-reflective devices. ACTIVATE MIRL Rwy

07-25 and REIL Rwy 07 and Rwy 25-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE PSC.

PASCO (L) VORW/DME 108.4 PSC Chan 21 N46°15.78′ W119°06.94′ 244° 28.3 NM to fld. 400/20E.



PRU FLD (See RITZVILLE)

PULLMAN/MOSCOW RGNL (See PULLMAN/MOSCOW)

174 WASHINGTON

PULLMAN/MOSCOW. ID

PULLMAN/MOSCOW RGNL (PUW) 3 NE UTC-8(-7DT) N46°44.63' W117°06.58' 2556 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE PUW

RWY 05-23: H6730X100 (ASPH) S-57, D-75, ST-95, DT-135 HIRI

RWY 05: REIL. PAPI(P2L)-GA 3.0° TCH 55'. Thid dsplcd 290'.

RWY 23: REIL. PAPI(P4L)-GA 4.0° TCH 60'. Thid dspicd 801'. Ground

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 05: TORA-6730 TODA-6730 ASDA-6490 LDA-6200 RWY 23: TORA-6730 TODA-6730 ASDA-6040 LDA-5240

AIRPORT REMARKS: Attended 1600-0200Z±, CLOSED to unscheduled air carrier ops with more than 30 passenger seats except PPR call arpt manager 509-338-3223. Non-payed areas soft, Acft must delay taxiing and remain behind the intermediate holding position line when large acft ops are in progress. No parking between rwy and taxiway and within 30' of taxiway to the north west. ACTIVATE HIRL Rwy 05-23, and REIL Rwy 05 and Rwy 23-CTAF, Landing fee for all commercial acft.

WEATHER DATA SOURCES: ASOS 135.675 (509)334-3222. HIWAS 109.0 PHW

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.6 (SEATTLE RADIO)

SEATTLE CENTER APP/DEP CON 123.95

AIRSPACE: CLASS E svc Mon-Fri 1400-0600Z‡, Sat 1700-0000Z‡, Sun 1900-0600Z‡ other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE PUW.

(L) VORW/DME 109.0 PUW Chan 27 N46°40.46′ W117°13.41′ 028° 6.3 NM to fld. 2720/20E. HIWAS. DME unmonitored.

PUYALLUP

PIERCE CO-THUN FLD (PLU) 5 S UTC-8(-7DT) N47°06.24′ W122°17.23′

B S4 FUEL 100LL 0X 4 TPA-1538(1000) NOTAM FILE PLU RWY 16-34: H3650X60 (ASPH) MIRL

RWY 16: REIL. PAPI(P4L)-GA 4.0° TCH 53'. Trees.

RWY 34: REIL, PAPI(P4R)—GA 4.0° TCH 53', Road.

AIRPORT REMARKS: Attended 1600Z‡-dusk. Fuel avbl 24 hours with credit card. Ultralights prohibited. Noise sensitive all quadrants.

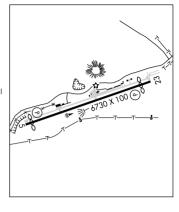
WEATHER DATA SOURCES: AWOS-3 128.575 (253) 848-2748.

COMMUNICATIONS: CTAF/UNICOM 122.7

SEATTLE APP/DEP CON 126.5 CLNC DEL 121.85

RADIO AIDS TO NAVIGATION: NOTAM FILE TCM.

McCHORD (T) VORTAC 109.6 TCM Chan 33 N47°08.86' W122°28.50' 087° 8.1 NM to fld. 284/22E. No NOTAM MP Thu 0700-1400Z±.



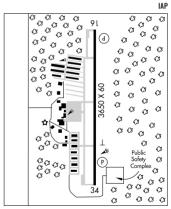
SEATTLE

SEATTLE

L-1D

ΙΔΡ

H-1C. L-13B



QUILLAYUTE (UIL) 1 SW UTC-8(-7DT) N47°56.20′ W124°33.76′

194 NOTAM FILE UIL

RWY 04-22: H4210X100 (CONC) S-30, D-50

RWY 04: Trees. RWY 22: Trees. Thid dsplcd 800'.

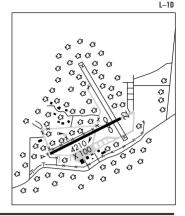
AIRPORT REMARKS: Unattended. Pedestrians, vehicles and animals on and in vicinity of rwy.

WEATHER DATA SOURCES: ASOS 135.225 (360) 374-9731.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

TATOOSH (H) VORTACW 112.2 TOU Chan 59 N48°17.99′ W124°37.62′ 151° 22.0 NM to fld. 1652/22E. **HIWAS.**



175

SFATTLE

SEATTLE

L-13A

1271 B NOTAM FILE SEA

RWY 09-27: H3660X50 (ASPH) MIRL

RWY 09: Road. RWY 27: PAPI(P2R)—GA 3.0° TCH 100'. Road.

AIRPORT REMARKS: Unattended. PAPI Rwy 27 OTS indef.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EAT.

WENATCHEE (L) VORW/DME 111.0 EAT Chan 47 N47°23.98' W120°12.65' 108° 18.9 NM to fld.

1224/19E. HIWAS. DME unmonitored.

COM/NAV/WEATHER REMARKS: HIWAS unavailable.

R & K SKYRANCH (See ROCHESTER)

RANGER CREEK (See GREENWATER)

RAYMOND (See SOUTH BEND/RAYMOND)

RENTON

RENTON MUNI (RNT) 0 NW UTC-8(-7DT) N47°29.59' W122°12.95'

32 B S4 **FUEL** 100LL, JET A1 + 0X 1, 2 TPA—See Remarks LRA NOTAM FILE RNT **RWY 16-34**: H5382X200 (ASPH-CONC-GRVD) S-100, D-130, DT-340 MIRL (NSTD)

RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Thid dsplcd 300'. Trees

RWY 34: REIL. PAPI(P2L)—GA 3.75° TCH 59'. Thid dsplcd 340'. Road. Rgt tfc.

AIRPORT REMARKS: Attended 1500Z‡—Dusk. Acft requiring svcs ctc 122.85 or 122.95. Numerous flocks of birds in vicinity and along Lake Washington. Be alert for Boeing production acft being towed across the rwy during hours twr closed. Seaplane base NW corner of arpt. TPA—1032(1000). TPA west of the fld is 1218' AGL due to terrain immediately west of the arpt. West twy closed to acft with wing span 118' or over. Noise abatement procedures in effect ctc arpt manager 425—430—7471. Rwy 16—34 NSTD MIRL, 340' SE end unlit. ACTIVATE MIRL Rwy 16—34, REIL Rwy 16 and Rwy 34 and twy Igts—CTAF. Flight Notification Service (ADCUS) available. WEATHER DATA SOURCES: ASOS (425) 255—6080. LAWRS.

COMMUNICATIONS: CTAF 124.7 ATIS 126.95 UNICOM 122.95

(R) SEATULE APPRIED CON 119.2 (076°–160° Rwy 16) (341°–075°) 120.1

(199°–300°) 120.4 (301°–340° Rwy 34) 125.9 (076°–160° Rwy 34) (301°–340° Rwy 16) 126.5 (161°–198°)

TOWER 124.7 (Oct 1-Apr 30 1500-0400Z‡, May 1-Sep 30 1500-0500Z‡) GND CON 121.6

AIRSPACE: CLASS D svc Oct 1-Apr 30 1500-0400Z‡, May 1-Sep 30 1500-0500Z‡ other times CLASS G.

SEATTLE (H) VORTACW 116.8 SEA Chan 115 N47°26.12′ W122°18.58′ 029° 5.2 NM to fld. 354/19E. **NDB (MHW)** 353 RNT N47°29.73′ W122°12.88′ at fld. NOTAM FILE RNT. NDB unusable 035° – 085° beyond 20 NM.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

WILL ROGERS WILEY POST MEM SPB (W36) 1 N UTC-8(-7DT) N47°29.99′ W122°13.16′

14 S4 **FUEL** 100LL, JET A, JET A1+ OX 1, 2 LRA NOTAM FILE RNT

WATERWAY 12-30: 5000X200 (WATER)

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

WATERWAY 12: Rgt tfc

SEAPLANE REMARKS: Attended 1500Z‡-Dusk. Ctc Renton twr when operating, for tfc data. When twr not operating announce intentions on 124.7. When flying inbound or outbound in the west channel waterway above 800′ AGL ctc Boeing twr freq 118.3 for traffic advisories. Flocks of waterfowl in vicinity, CAUTION advised ldgs and takeoffs. Extensive boating and personal watercraft in vicinity. Flight Notification Service (ADCUS) available. COMMUNICATIONS: CTAF 124.7 UNICOM 122.8

REPUBLIC

FERRY CO (R49) 6 NE UTC-8(-7DT) N48°43.09′ W118°39.39′

2522 B TPA-3322(800) NOTAM FILE SEA

RWY 17-35: H3498X60 (ASPH) MIRL

RWY 17: REIL. Tree. Rgt tfc.

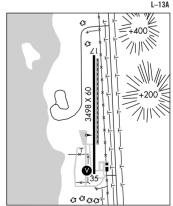
RWY 35: REIL. VASI(V2L)—GA 4.0° TCH 23'. Trees.

AIRPORT REMARKS: Unattended. Suggest ngt ldgs be made on Rwy 35. Rwy 17–35 trees located on unlgtd unmarked mountainous terrain. P-lines NE of Rwy 17 lgtd dusk-dawn. ACTIVATE MIRL Rwy 17–35 and VASI Rwy 35, REIL Rwy 17 and Rwy 35—122.8.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 360° 86.2 NM to fld. 1250/21E.



SEATTLE

IAP, AD

SEATTLE

SFATTLE

H-1R I-1D

SFATTI F

SEATTLE.

L-13A

IAP

RIB00 N46°22.23′ W119°15.55′.

NDB (LOM) 260 RL

NOTAM FILE SEA.

186° 4.3 NM to Richland. LOM unmonitored when PASCO twr clsd.

RICHLAND (RLD) 2 NW UTC-8(-7DT) N46°18.34′ W119°18.25′

394 B S2 FUEL 100LL JET A TPA-1194(800) NOTAM FILE RLD

RWY 01-19: H4009X75 (ASPH) S-30, D-45, DT-70

RWY 01: REIL. PAPI(P2L)-GA 3.0° TCH 30'. Antenna.

RWY 19: MALS. REIL. PAPI(P2L)-GA 3.0° TCH 30'. Pole. Rgt tfc.

RWY 08-26: H3995X100 (ASPH) S-30, D-45, DT-70

RWY 08: ODALS. PAPI(P2L) GA 3.0° TCH 40'. Ground.

RWY 26: VASI(V4L)-GA 3.0° TCH 50'. Railroad. Rgt tfc.

AIRPORT REMARKS: Attended 1600-0200Z±. Parachute Jumping. CAUTION: Road 550' west of approach end of Rwy 08. Rwy 08 CLOSED nights to Part 135 operations, ACTIVATE MIRL Rwy 01-19, REIL Rwv 01 and Rwv 19, MALS Rwv 19 and ODALS Rwv

08-CTAF, VASI Rwy 26 and PAPI Rwy 01, Rwy 08 and Rwy 19 opr 24 hrs. WEATHER DATA SOURCES: AWOS-3 132.675 (509) 375-4247.

COMMUNICATIONS: CTAF/UNICOM 122.7 (R) CHINOOK APP/DEP CON 128.75 (1400-0600Z±).

R SEATTLE APP/DEP CON 132.6 (0600-1400Z±).

RADIO AIDS TO NAVIGATION: NOTAM FILE PSC.

PASCO (L) VORW/DME 108.4 PSC Chan 21 N46°15 78'

W119°06.94' 268° 8.3 NM to fld. 400/20E. RIBOO NDB (LOM) 260 RL N46°22.23′ W119°15.55′ 186°

4.3 NM to fld. LOM unmonitored when PASCO twr clsd.

ILS/DME 110.5 I-RLD Chan 42 Rwy 19 Localizer only, LOM RIBOO NDB, Unmonitored when PASCO twr.clsd

COMM/NAV/WEATHER REMARKS: CLNC DEL provided by SEATTLE Radio on 122.4.

RIMROCK

2964

TIETON STATE (4S6) 2 S UTC-8(-7DT) N46°38.25′ W121°07.44′

SEATTLE

NOTAM FILE SEA RWY 02-20: 2509X140 (TURF)

RWY N2. Trees RWY 20: Trees.

AIRPORT REMARKS: Unattended. CLOSED 1 Oct-1 June. Rwy 02 obstructed by mountains at 1000'. Rwy 20 obstructed by mountains at 1000'. Pedestrians, vehicles and animals on or invof rwy. Rwy 02-20 surface rough. Deep cuts on NW edge of rwy first 800 ft of Rwy 02, Rwy 02-20 edges marked with boundary markers, Ctc Washington State Aviation Division 360-651-6300 or for Washington only 1-800-552-0666 for facility information prior to use.

COMMUNICATIONS: CTAF 122.9

RITTS N48°03.17′ W122°17.33′. NOTAM FILE PAE.

NDB (LOM) 396 PA 158° 8.8 NM to Snohomish Co (Paine Fld). SEATTLE

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RITZVILLE
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PRU FLD (33S) 1 W UTC-8(-7DT) N47°07.39' W118°23.37'

1801 B NOTAM FILE SEA

RWY 01-19: H3635X40 (ASPH) MIRL(NSTD)

RWY 01: Thid dsplcd 387'. P-line.

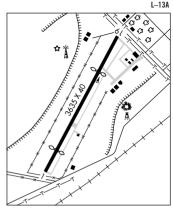
RWY 19: Thid dspicd 816'. Trees.

AIRPORT REMARKS: Unattended. Arpt CLOSED when snow and ice on rwy. Rwy 01-19 NSTD MIRL, 3' red Igts 3 each side of rwy at ends of pavement, ACTIVATE MIRL Rwv 01-19-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE GEG.

SPOKANE (H) VORTACW 115.5 GEG Chan 102 N47°33.90' W117°37.61' 209° 40.9 NM to fld. 2755/21E. HIWAS.



ROCHE HARBOR SPB (W39) 0 SW UTC-8(-7DT) N48°36.49′ W123°09.58′

SEATTLE

SEATTLE

NOTAM FILE SEA

WATERWAY NE-SW: 5000X1000 (WATER) WATERWAY NW-SE: 2500X500 (WATER)

SEAPLANE REMARKS: Unattended. CAUTION—boats in landing areas and in docking area.

COMMUNICATIONS: CTAF 128.25

ROCHESTER

R & K SKYRANCH (8W9) 1 N UTC-8(-7DT) N46°49.96′ W123°05.49′

SEATTLE

149 TPA-999(850) NOTAM FILE SEA

RWY 18-36: 2750X45 (TURF)

RWY 18: Thid dsplcd 575'. P-line. RWY 36: Thid dsplcd 300'. Fence.

RWY 16-34: 2480X35 (TURF)

RWY 16: Thid dspicd 700'. Trees. RWY 34: Thid dsplcd 327'. Fence.

AIRPORT REMARKS: Unattended. Arpt CLOSED except PPR call arpt mgr 360-273-9893. No touch and go landings. Rwy 16-34 and Rwy 18-36 marked with reflectors. Rwy 16 first 1,100' has shrubs and 70'+ trees

approximately 15' from rwy edges.

COMMUNICATIONS: CTAF/UNICOM 123.0

ROSALIA MUNI (72S) 2 W UTC-8(-7DT) N47°14.20′ W117°25.28′

SEATTLE

2169 B FUEL 100LL NOTAM FILE SEA

RWY 02-20: H2800X45 (ASPH) MIRI

RWY 20: PAPI(P2L)-GA 4.5°. Road. RWY N2. Tree

AIRPORT REMARKS: Unattended. Rwy 02–20 taxiway reflectors-not taxiway Igts. Rotating bcn OTS indef. ACTIVATE

MIRL Rwy 02-20-122.8. **COMMUNICATIONS: CTAF 122.9**

ROSARIO SPB (W49) 0 S UTC-8(-7DT) N48°38.74′ W122°52.08′

SEATTLE

00 NOTAM FILE SEA

WATERWAY 16-34: 10000X1000 (WATER)

WATERWAY 16: Hill.

WATERWAY 07-25: 2500X1000 (WATER)

WATERWAY 07: Hill. WATERWAY 25: Hill.

SEAPLANE REMARKS: Attended dalgt hrs. Tran dock avbl.

COMMUNICATIONS: CTAF 128.25

SAND CANYON (See CHEWELAH)

SANDERSON FLD (See SHELTON)

SEATTLE N47°26.12′ W122°18.58′ NOTAM FILE SEA. SEATTLE (H) VORTACW 116.8 SEA Chan 115 at Seattle-Tacoma Intl. 340/19E. H-1R I-1D VOR portion unusable: 303°-333° beyond 20 NM below 2,900' 008°-023° beyond 30 NM below 4,100' 303°-333° beyond 30 NM below 4,000' 233°-273° beyond 8 NM below 5.500' 333°-353° beyond 15 NM below 3,500' 233°-273° beyond 20 NM below 8,000' 353°-008° beyond 20 NM below 2,900' 233°-273° beyond 30 NM below 10,000' 008°-023° bevond 20 NM below 3,500' 233°-273° beyond 35 NM below 3.500' DME portion unusable: 008°-028° bvd 20 NM blo 4.500' 303°-008° byd 30 NM below 3.500' 008°-028° byd 30 NM blo 7,000' 203°-253° byd 27 NM all altitudes. RCO 123.65 (SEATTLE RADIO) RCO 122.5 (SEATTLE RADIO)

SEATTLE

BOEING FLD/KING CO INTL (BFI) 4 S UTC-8(-7DT) N47°31.80′ W122°18.12′ 21 B S4 FUEL 100LL, JET A OX 1, 2,3, 4 TPA—See Remarks AOE

SEATTLE H-1B, L-1D IAP. AD

RWY 13R-31L: H10000X200 (ASPH-GRVD) S-100, D-160, ST-175, DT-340 HIRL

RWY 13R: MALSF. PAPI(P4L)—GA 3.0° TCH 39'. Fence. Rgt tfc. RWY 31L: REIL. PAPI(P4L)—GA 3.1° TCH 39'. Thid dspicd 880'. Railroad.

Class II, ARFF Index A NOTAM FILE BFI

RWY 13L-31R: H3710X100 (ASPH-GRVD) S-35, D-60 MIRL RWY 13L: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Thid dsplcd 240'. Glide Slope Antenna.

RWY 31R: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Thid dsplcd 365'. Tree. Rgt tfc.

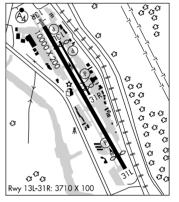
RUNWAY DECLARED DISTANCE INFORMATION:

 RWY 13R:
 TORA-10001
 TODA-10000
 ASDA-9120
 LDA-9120

 RWY 31L:
 TORA-10001
 TODA-10001
 ASDA-10001
 LDA-9120

 AIRPORT REMARKS:
 Attended continuously. Bird flocks within arpt

vicinity, check local advisories. Rwy 13L–31R not available for air carrier ops. Rwy 13L–31R limited to use by acft up to 12,500 lbs. Touch and go ldgs prohibited 0600–15002‡. Twr 80' AGL located 1200' north and 900' west of thid Rwy 13R. If access to Boeing ramp required ctc Boeing Flight Dispatch 206–655–3421 for



approval during normal duty hours. Twy A6 clsd indef. Twy B8 clsd indef. Twy A1 and Twy A from A1–A3 restricted to acft up to 150,000 pounds and less than 108′ wingspan. Twy A2, B2 and A11 restricted to acft up to 60,000 pounds. Twy A3, A5, and A8 restricted to acft up to 12,500 pounds. PPR for parking arrangements for acft over 12,500 lbs maximum tkf weight is recommended. Extensive helicopter training activity on Twy B. For noise abatement procedures, ctc noise office at 206–296–7437. Twy Z and 880′ special use pavement avbl 72 hrs PPR. Ctc arpt ops 206–296–7334. For Museum of Flight transient acft parking, prior permission required, call 206–764–5710. Itinerant/transient parking avbl. Ctc arpt ops 206–296–7334. Rwy 13L–31R TPA—1000(979), Rwy 13R–31L TPA—800(779). HIRL Rwy 13R–31L opr dusk–dawn. MIRL Rwy 13L–31R not opr 2200–07002‡. Landing fee: Ctc arpt ops. Flight Notification Service (ADCUS) available. NOTE: See Special Notices Section—Simultaneous Operations.

WEATHER DATA SOURCES: ASOS (206) 763-6904.

COMMUNICATIONS: ATIS 127.75 (206) 767-4113 UNICOM 122.95

SEATTLE FSS (SEA) on arpt.

SEATTLE RCO 122.5 (SEATTLE RADIO) SEATTLE RCO 123.65 (SEATTLE RADIO)

R SEATTLE APP/DEP CON 119.2 (076°-160° Rwy 13) (341°-075°) 120.1 (199°-300°) 120.4 (301°-340° Rwy 31) 125.9 (076°-160° Rwy 31) (301°-340° Rwy 13) 126.5 (161°-198°)

BOEING TOWER 120.6 (128°-308° and Departures Rwy 13R-31L, also all Jets, heavy aircraft and IFR arrivals. 118.3 309°-127° and Departures Rwy 13L-31R.)

GND CON 121.9 CLNC DEL 132.4

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

SEATTLE (H) VORTACW 116.8 SEA Chan 115 N47°26.12′ W122°18.58′ 344° 5.7 NM to fld. 354/19E. **NOLLA NDB (LOM)** 362 BF N47°37.95′ W122°23.37′ 130° 7.1 NM to fld.

ILS/DME 110.9 I–BFI Chan 46 Rwy 13R. Class IA. LOM NOLLA NDB. Localizer back course unusable byd 13 NM blo 3,500'. Localizer back course unusable byd 10° left and right of course. Localizer unusable byd 20° left of course. DME unusable byd 30° left of course.

ILS/DME 110.9 I-CHJ Chan 46 Rwy 31L. Class IB. Localizer unusable byd 15° east of course. ILS/DME unusable byd 10° right of course.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

WASHINGTON KENMORE AIR HARBOR SPB (W55) 1 N UTC-8(-7DT) N47°37.74′ W122°20.32′ SFATTLE AOE NOTAM FILE SEA FIIFI 100LL IFT A WATERWAY 16-34: 5000X500 (WATER) SEAPLANE REMARKS: Attended dawn-dusk. Fuel avbl emergency only. Night landings not recommended due to unlighted small watercraft. Red buoy indicates start and stop area for tkfs and ldgs. Increased boating ops on lake Apr 15 thru Oct 15. All tkf and ldg in center of lake. Special noise abatement rules in effect ctc operator for pattern information. Do not taxi closer than 200' from shoreline except in close proximity to Kenmore Air Harbor. Call 425-486-1257 X2010 for approval at least 3 hrs prior to arrival. Docking fee. Flight Notification Service (ADCUS) available. COMMUNICATIONS: CTAF 122.9 **SEATTLE SEAPLANES SPB** (ØWØ) 1 N UTC-8(-7DT) N47°37.66′ W122°19.91′ SEATTLE 14 S2 NOTAM FILE SEA WATERWAY 18-36: 9500X300 (WATER) SEAPLANE REMARKS: Attended 1600Z‡-dusk, Small watercraft activity on lake. COMMUNICATIONS: CTAF 122.9 **SEATTLE-TACOMA INTL** (SEA) 10 S UTC-8(-7DT) N47°26.99′ W122°18.71′ SFATTI F 433 B FUEL 100LL, JET A, A1 LRA Class I, ARFF Index E NOTAM FILE SEA H-1R I-1D ΙΔΡ ΔΠ RWY 16L-34R: H11901X150 (CONC-GRVD) S-100, D-230, DT-600, DDT-1400 HIRL CL RWY 16L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 79'. 0.6% down. RWY 34R: TDZL. MALSR. PAPI(P4L)—GA 2.75° TCH 82'. 0.8% up. RWY 16C-34C: H9426X150 (CONC-GRVD) S-100, D-200, ST-175, DT-350, DDT-800 HIRL CL RWY 16C: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 76'. 0.6% down. RWY 34C: MALSR. PAPI(P4L)—GA 3.0° TCH 62'. Tree. 0.8% up. RWY: 16R-34L H8500X150 (CONC-GRVD) S-100, D-216, DT-448, TDT-817, DDT-1157 HIRL CL RWY 16R: ALSF2. TZL. PAPI(P4R)—GA 3.0° TCH 69'. 0.6% down. RWY 34L: MALSR. PAPI(P4L)—GA 3.0° TCH 75'. 0.8% up. AIRPORT REMARKS: Attended continuously. Bird flocks within airport vicinity—check local advisories. Helicopters Idg and departing avoid overflying fuel farm located at the SE corner of the arpt. ASDE-X surveillance system in use: pilots should operate transponders with mode C on all twys and rwys. Do not mistake Twy T for landing sfc. Twy A south of Twy G restricted to acft with wingspan 214' and smaller. Taxilane around N satellite restricted to acft with wingspans of 200' or less except for gates N7-N9. Access to air cargo 4 parking and cargo areas rstd to acft with wingspans of 118' or less. Twy for corporate hangar ramp ltd to acft with 104' or less wingspan for taxi ops. GA customs parking is very limited. PPR for all general aviation parking and svc, ctc 206-433-5481. Between the hours of 0600-1500Z‡, the use of extdd reverse thrust is discouraged byd what is necessary for opr or safety reasons. NS ABTMT procedures in effect between 0600-1400Z‡. For further information ctc SEA NS ABTMT office at 206-787-7496. Touchdown, midpoint and rollout runway visual range avbl Rwy 16C, Rwy 34C, Rwy 16L, Rwy 34R, Rwy 16R, and Rwy 34L. Landing fee. Flight Notification Service (ADCUS) available. NOTE: See Special Notices—Seattle-Tacoma Intl Gatehold Procedures, Oceanic Departures, WEATHER DATA SOURCES: ASOS (206) 431-2834. COMMUNICATIONS: D-ATIS 118.0 (206) 241-6025 UNICOM 122.95 R SEATTLE APP CON 120.1 (199°-300°) 120.4 (301°-340° Rwy 34) 125.6 (West) 125.9 (076°-160° Rwy 34) (301°-340° Rwy 16) 126.5 (161°-198°) 133.65 (ARR Rwy 16) 123.9 R SEATTLE DEP CON 119.2 (DEP Rwy 16) 120.1 (199°-300°) 120.4 (301°-340° Rwy 34) 125.6 (West) 125.9 (076°-160° Rwy 34) (301°-340° Rwy 16) 126.5 (161°-198°) 123.9 SEATTLE TOWER 119.9 (Rwy 16L-34R, Rwy 16C-34C) 120.95 (Rwy 16R-34L) GND CON 121.7 126.87 (Cargo north ramp) 122.27 (South ramp) CLNC DEL 128.0 AIRSPACE: CLASS B See VFR Terminal Area Chart. RADIO AIDS TO NAVIGATION: NOTAM FILE SEA. (H) VORTACW 116.8 SEA Chan 115 N47°26.12′ W122°18.58′ at fld. 354/19E. ILS/DME 110.75 I-CJL Chan 44(Y) Rwy 16R. Class IIIE. ILS/DME 110.75 I-BEJ Chan 44(Y) Rwv 34L. Class IIE.

ILS/DME 111.7 I-TUC Chan 54 Rwy 34C. Class IIE. DME also serves ILS Rwy 16C.

better prior to DGLAS, due to taxiing acft in glideslope critical area.

Chan 40 Rwy 34R. Class IID. DME also serves ILS Rwy 16L.

14 NM blo 3,000'. DME also serves ILS Rwy 34R. Rwy 16L ILS GP possible fluctuations when wx is 800/2 or

Chan 54 Rwy 16C. Class IIIE. DME also serves ILS Rwy 34C. LOC front

Class IIIE. Localizer unusable byd 15° left of course, byd

ILS/DME 110.3 I-SEA

ILS/DME 111.7 I-SZI

course unusable byd 10 NM, blo 2,500'. ILS/DME 110.3 I-SNQ Chan 40 Rwy 16L. **SEKIU** (11S) 0 NW UTC-8(-7DT) N48°15.97′ W124°18.84′ SFATTI F

SEATTLE

SEATTLE

SEATTLE

H-1B, L-1D

355 B NOTAM FILE SEA

RWY 08-26: H2997X50 (ASPH) LIRI

RWY 26: VASI(V2L)-GA 4.0° TCH 35' (nights only). Tree. RWY N8: Thid depict 900' Hill

AIRPORT REMARKS: Unattended. Deer on and in vicinity of arpt Sep-Mar. High ridge along N side of rwy. Turbulence on E end apch over water. Difficult apch when wind from N. PPR for other than single engine acft, call arpt manager 360-457-1138. Rwy 08-26 poor subsurface drainage during wet weather conditions causes rwy surface movements

COMMUNICATIONS: CTAF 122.9

SEQUIM VALLEY (W28) 4 NW UTC-8(-7DT) N48°05.89′ W123°11.23′

144 B S6 FUEL 100LL NOTAM FILE SEA

RWY 09R-27L: H3510X40 (ASPH)

RWY 27L: Trees. RWY 09R: Trees. Rgt tfc.

RWY 09L-27R: 3500X100 (TURF)

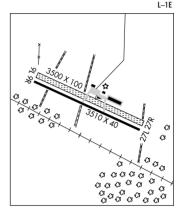
RWY 09L: Fence, Rgt tfc. RWY 27R: Trees.

AIRPORT REMARKS: Attended 1700-0100Z‡. Deer on and in the vicinity of arpt, Rwv 09L fence covered with 5' shrubs, Rwv 09L-27R PPR for landing call 360-683-4444. Rwy 09R-27L has a 6" shoulder. Rwy 27L marked with broken line. Paved twys cross turf Rwv 09L-27R.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE SEA.

TATOOSH (H) VORTACW 112.2 TOU Chan 59 N48°17.99' W124°37.62' 079° 59.1 NM to fld. 1652/22E. HIWAS.



SHADY ACRES (See SPANAWAY)

SHELTON

SANDERSON FLD (SHN) 3 NW UTC-8(-7DT) N47°14.01′ W123°08.85′

273 B S4 FUEL 100LL, JET A NOTAM FILE SHN

RWY 05–23: H5005X100 (ASPH) S–55, D–72, DT–130 MIRL 0.3% up NE

RWY 05: Trees. Rgt tfc.

RWY 23: REIL. PAPI(P4L)-GA 3.0° TCH 35'. Trees.

AIRPORT REMARKS: Attended 1600-0030Z‡. Parachute Jumping. 24 hr credit card fuel facility.

WEATHER DATA SOURCES: ASOS 119.275 (360) 427-3835.

COMMUNICATIONS: CTAF/UNICOM 122.8

R SEATTLE APP/DEP CON 121.1

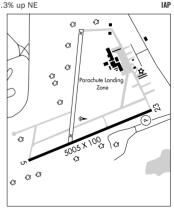
RADIO AIDS TO NAVIGATION: NOTAM FILE OLM.

OLYMPIA (H) VORTACW 113.4 OLM Chan 81 N46°58.30' W122°54.11' 308° 18.7 NM to fld. 200/19E. HIWAS.

MASON CO NDB (MHW) 348 MNC N47°14.89' W123°05.18'

232° 2.7 NM to fld. NOTAM FILE SHN.

NDB unmonitored. NDB unusable 280°-340°beyond 20 NM.



SII VFRDAI F

APEX AIRPARK (8W5) 2 NW UTC-8(-7DT) N47°39.41′ W122°43.99′ 525 B S4 NOTAM FILE SEA

Not insp.

RWY 17-35: H2500X28 (ASPH) LIRL

RWY 35: Rgt tfc.

AIRPORT REMARKS: Attended continuously. Caution: children and pets etc on invof arpt. No line of sight between rwy ends. Twy east side rwy. Use caution on twy. Trees, acft and buildings in transition sfcs.

COMMUNICATIONS: CTAF/UNICOM 122.8

182 WASHINGTON

 SKAGIT/BAY VIEW
 N48°28.12′ W122°25.10′.
 NOTAM FILE BVS.
 SEATILE

 NDB (MHW) 240
 BVS
 at Skagit Rgnl. NDB unusable 350°–030° byd 20 NM.
 L-1E

SKAGIT RGNL (See BURLINGTON/MOUNT VERNON)

SKY HARBOR (See SULTAN)

SKYLINE SPB (See ANACORTES)

SKYKOMISH STATE (S88) 1 E UTC-8(-7DT) N47°42.66′ W121°20.34′

SEATTLE

SEATTLE

L-1D

IAP

1002 NOTAM FILE SEA

RWY 06-24: 2050X100 (TURF)

RWY 06: Trees. RWY 24: Trees.

AIRPORT REMARKS: Unattended. CLOSED yearly 1 Oct-1 June. Pedestrians and animals on and invof rwy. CTC Washington State Division of Aeronautics 360–651–6300 or 1–800–552–0666, for facility information prior to use. Mountains surround arpt.

COMMUNICATIONS: CTAF 122.9

SNOHOMISH CO (PAINE FLD) (See EVERETT)

SNOHOMISH

HARVEY FLD (S43) 1 SW UTC-8(-7DT) N47°54.29′ W122°06.16′

22 S4 FUEL 100, JET A TPA-1006(984) NOTAM FILE SEA

RWY 15L-33R: H2671X36 (ASPH) S-10 LIRL (NSTD)

RWY 15L: TRCV(TRIR)—GA 5.0° TCH 30'. Thid dsplcd 451'. P-line. Rgt tfc.

RWY 33R: TRCV (TRIR)—GA 3.0° TCH 30'. Thid dsplcd 241'. Trees.

RWY 15R-33L: 2430X100 (TURF)

RWY 15R: P-line. Rgt tfc. RWY 33L: Trees.

AIRPORT REMARKS: Attended Nov-Mar 1530–0200Z‡, Apr–Oct 1530–0500Z‡. Fuel 24 hour credit card svc avbl. Parachute Jumping. Helicopter training west of rwys 500′ and blo. High voltage P-line 22′ high 25′ from apch end of Rwy 15L. Additional parachute student drop zone 1 NM E of arpt marked with white X. Arriving helicopter tfc apch helipads from NE or SE to avoid student drop zone. Parachute drop zone between Rwy 15L–38R and main twy, large gravel circle. Rwy 15L and Rwy 15R calm wind rwys. Noise abatement procedures in effect, ctc arpt manager 360–568–1541. Rwy 15L–33R NSTD LIRL, thid ligts 360° green.

COMMUNICATIONS: CTAF/UNICOM 123.0

SEATTLE CENTER APP/DEP CON 128.5

RADIO AIDS TO NAVIGATION: NOTAM FILE PAE.

PAINE (L) VORW/DME 110.6 PAE Chan 43 N47°55.19′ W122°16.67′ 077° 7.1 NM to fld. 670/20E.

SOUTH BEND (RAYMOND)

WILLAPA HARBOR (2S9) 2 NW UTC-8(-7DT) N46°41.86′ W123°49.40′

SEATTLE

L-1C

13 B FUEL 100LL NOTAM FILE SEA

RWY 11-29: H3005X52 (ASPH) S-12 MIRL

RWY 11: Trees. RWY 29: Trees.

AIRPORT REMARKS: Unattended. Fuel unavbl indef. Watch for elk on and in vicinity of arpt. Rwy 11–29 52' wide with 22.5' asph trtd shoulders. Rotating bcn OTS indef. ACTIVATE rotating bcn—122.8. ACTIVATE MIRL Rwy 11–29—122.8.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE HQM.

HOQUIAM (H) VORTAC 117.7 HQM Chan 124 N46°56.82′ W124°08.96′ 119° 20.1 NM to fld. 10/19E. HIWAS.

SOUTHWEST WASHINGTON RGNL (See KELSO)

SPANAWAY

SHADY ACRES (3B8) 3 SE UTC-8(-7DT) N47°04.22′ W122°22.27′

SEATTLE

445 NOTAM FILE SEA

RWY 16-34: H1800X20 (ASPH) LIRL

RWY 16: Trees. RWY 34: Thid dspicd 200'. Road. Rgt tfc.

AIRPORT REMARKS: Unattended. PPR for night ops call arpt manager 253–846–8953. Military activity on and in vicinity of arpt. Power plants with emissions that may not be visible 0.5 and 1 statute mile northeast of arpt. Dsplcd thld marked with NSTD chevrons. Rwy 16 ID is not standard distance from rwy end. Directional rwy edge Igts.

WASHINGTON

COMMUNICATIONS: CTAF 122.9

SPANAWAY (S44) 1 S UTC-8(-7DT) N47°05.21′ W122°25.88′

SEATTLE

373 FUEL 100LL TPA-988(615) NOTAM FILE SEA

RWY 16-34: H2724X20 (ASPH) S-12 LIRL

RWY 16: Thid dspicd 200'. Tree. RWY 34: Trees. Rgt tfc.

AIRPORT REMARKS: Attended 1600Z‡-dusk. CAUTION: Military tfc on and in vicinity of arpt. Rwy 16 paved, Rwy 16 has NSTD numbers, edge lines and thid markings only, Rwy 16 number located 300' S of painted dsplcd thid.

COMMUNICATIONS: CTAF 122.9

R SEATTLE APP/DEP CON 126.5

SPOKANE

FELTS FLD (SFF) 4 NE UTC-8(-7DT) N47°40.97′ W117°19.35′

1953 B S4 **Fuel** 100ll, jet a1 + 0x 3, 4 lra notam file SFF

SEATTLE L-13B IAP. AD

RWY 03L-21R: H4500X150 (CONC) S-30 MIRL RWY 03L: REIL. VASI(V4L)—GA 3.0° TCH 50′. Road.

RWY 21R: MALSR, VASI(V4R)-GA 3.5° TCH 59', Tree, Rgt tfc.

RWY 03R-21L: H3059X75 (ASPH) S-30

RWY 03R: Thid dspicd 415'. Bldg. Rgt tfc.

RWY 21L: PAPI(P4L)—GA 3.8° TCH 42′. Trees.

AIRPORT REMARKS: Attended 1500–02002‡. Waterfowl and birds on and invof arpt. Lgtd crane 1953′MSL (200′ AGL) 1.25 NM east indef. Acft with tail heights over 20′ must ctc ATCT prior to taxi. Twr unable to provide ATC svc on perimeter twy due to movement of uncontrolled ground tfc. PPR for rotorwing acft conducting hover ops above 10′ AGL in non–movement area ctc twr. Obstacle free area for Twy A is delineated with a green line. Rwy 21L PAPI unusable byd 5° either side of centerline within 4 NM of thId. When twr clsd ACTIVATE MALSR Rwy 21R and REIL 03L–CTAF. VASI Rwy 03L and VASI Rwy 21R opr continuously. PAPI Rwy 21L opr SR–SS. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (509) 535-3290. HIWAS

COMMUNICATIONS: CTAF 132.5 ATIS 120.55 UNICOM 122.95

SPOKANE RCO 122.65 122.55 122.2 (SEATTLE RADIO)

R SPOKANE APP/DEP CON 133.35

TOWER 132.5 (1400-0400Z‡) GND CON 121.7

AIRSPACE: CLASS D svc 1400-0400Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE GEG.

SPOKANE (H) VORTACW 115.5 GEG Chan 102 N47°33.90′ W117°37.61′ 039° 14.2 NM to fld. 2755/21E. HIWAS.

NDB (MHW) 365 SFF N47°41.17′ W117°18.71′ at fld. NOTAM FILE SFF. SHUTDOWN.

ILS/DME 111.7 I–FLZ Chan 54 Rwy 21R. LOC only. Localizer unusable 0.2 NM from rwy threshold. DME unusable 15° right of course.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

WATERWAY 03-21: 6000X100 (WATER)

WATERWAY 21: Rgt tfc.

SEAPLANE REMARKS: Extensive boating in area of water rwy. Water level on river may be lowered by Corp of Engineers. Water area adjacent to airport not controlled or maintained by airport. Waterway 03–21 water rwy advisory service only area not visible from twr. Ctc Felts twr 132.5 for tfc data.

184 MUTSHINGTON

SPOKANE INTL (GEG) 5 SW UTC-8(-7DT) N47°37.19′ W117°32.03′

2376 B S4 FUEL 100, 100LL, JET A OX 1, 2, 3, 4 Class I, ARFF Index B NOTAM FILE GEG H-1C, L-13B RWY 03-21: H9001X150 (ASPH-GRVD) S-200, D-200, ST-175, DT-400 HIRI CI ΙΔΡ ΔΠ

RWY 03: ALSF2. TDZL. VASI(V6L)-Upper GA 3.25° TCH 87', Lower GA 3.0° TCH 54'. Rgt tfc. 0.5% down.

RWY 21: ALSF2. TDZL. PAPI(P4L). Ground. Rgt tfc. 0.8% up. RWY 07-25: H8199X150 (ASPH-GRVD) S-150, D-180, ST-175, DT_280 MIRI

RWY 07: REIL. VASI(V4L)-GA 3.2° TCH 60'. Rgt tfc.

RWY 25: REIL. PAPI(P4L)—GA 3.0° TCH 50'. Tree.

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 07	03-21	2800
RWY 21	07-25	7000
RWY 25	03-21	4350

AIRPORT REMARKS: Attended 1400-0600Z‡. Waterfowl and birds on and invof arpt. Twy H restricted to wingspan of 75' or less. Twy K unlighted on ramp side along maintenance ramp and is unavailable below 1200 RVR unless under escort by "follow me". Rwy 21 ALSF2 may be operated as SSALR during favorable weather conditions. Be alert to turbulence over smoke stacks 1 mile E of arpt. U.S. Customs user fee arpt. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (509) 624-4406. HIWAS 115.5 GEG.

COMMUNICATIONS: ATIS 124.325 UNICOM 122.95

RCO 122.65 122.55 122.2 (SEATTLE RADIO)

R APP/DEP CON 133.35 (026°-204°) 123.75 (205°-025°)

TOWER 118.3 GND CON 121.9 CLNC DEL 127.55

AIRSPACE: CLASS C svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE GEG.

(H) VORTACW 115.5 GEG Chan 102 N47°33.90′ W117°37.61′ 028° 5.0 NM to fld. 2755/21E. HIWAS.

VOR portion unusable: 360°-015° bvd 22 NM blo 7.000'

335°-360° bvd 18 NM blo 7.000'

335°-360° byd 25 NM

300°-330° byd 30 NM blo 9,000' PHORT NDB (LOM) 388 GE N47°40.62′ W117°27.01′ 207° 4.8 NM to fld. ILS/DME 111.1 I-GEG Chan 48 Rwy 21. Class IIIE. LOM PHORT NDB.

ILS/DME 111.1 I-OLJ Chan 48 Rwy 03. Class IIIE.

STAMPEDE PASS N47°15.98' W121°22.07'/3964.

ASOS 135.275 SMP (360) 886-2758

SEATTLE

SEATTLE

SEATTLE

L-1D

STANWOOD

CAMANO ISLAND AIRFIELD (13W) 3 NW UTC-8(-7DT) N48°15.42′ W122°26.21′

145 S4 NOTAM FILE SEA

RWY 16-34: H1750X24 (ASPH)

RWY 34: Brush. Rgt tfc. RWY 16: Tree. Rgt tfc.

AIRPORT REMARKS: Attended Mon-Fri 1630-0130Z‡. Do not taxi on grass Oct-May. Parallel driveway adjacent to Rwy

COMMUNICATIONS: CTAF 122.9

STARBUCK

LITTLE GOOSE LOCK AND DAM (16W) 7 NE UTC-8(-7DT) N46°34.99' W118°00.06'

SEATTLE

681 NOTAM FILE SEA

RWY 07-25: 3400X50 (GRVL)

RWY 07: Road. RWY 25: Hill.

AIRPORT REMARKS: Unattended. CLOSED 1 Oct-1 June. CAUTION: Airport located in canyon rolling terrain 700-800' S rising to 750', canyon wall 800' S rises steeply to 1800'+, N wall rises to 1600'+. Pedestrians, vehicles, and animals on or invof rwy. CTC Washington State Aviation Division 360-651-6300 or 1-800-552-0666 for facility information prior to use.

STEHEKIN STATE (6S9) 3 NW UTC-8(-7DT) N48°20.74′ W120°43.24′

1230 NOTAM FILE SEA **RWY 13–31:** 2630X100 (TURF)

RWY 13: Road. RWY 31: Brush.

AIRPORT REMARKS: Unattended. Arpt CLOSED Oct–Jun. Pedestrians, vehicles and animals on or invof rwy. Ctc Washington State Aviation Division 360–651–6300 or within Washington state 1–800–552–0666 for facility information prior to use.

COMMUNICATION: CTAF 122.9

STROM FLD (See MORTON)

SULLIVAN LAKE STATE (See METALINE FALLS)

SULTAN

SKY HARBOR (S86) 1 E UTC-8(-7DT) N47°52.24′ W121°47.54′

SEATTLE

185

SFATTI F

282 NOTAM FILE SEA

RWY 07-25: 1930X100 (TURF)

RWY 07: Brush. RWY 25: Brush.

AIRPORT REMARKS: Unattended. Ctc arpt manager 425–359–4625 for facility information prior to use. Watch for animals and children on and invof arpt. West end very soft in winter and spring. Preferred rwy ops wind permitting land W, tkf E. Avoid arpt during high wind conditions. No touch and go ops. No instruction or student ops. Helicopter parking NE end of rwy.

COMMUNICATIONS: CTAF 122.9 UNICOM 122.8

SUNNYSIDE MUNI (1S5) 2 E UTC-8(-7DT) N46°19.63′ W119°58.22′

SEATTLE

L-13A

768 B **FUEL** 100LL NOTAM FILE SEA **RWY 07-25**: H3423X60 (ASPH) S-12.5 LIRL

RWY 07: PAPI(P2L)—GA 3.0°. Road.

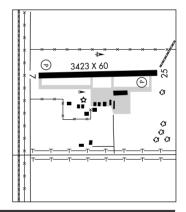
RWY 25: PAPI(P2L)—GA 3.0°. Pole.

AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9 UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE PSC.

PASCO (L) VORW/DME 108.4 PSC Chan 21 N46°15.78′ W119°06.94′ 256° 35.8 NM to fld. 400/20E.



SWANSON (See EATONVILLE)

TACOMA

AMERICAN LAKE SPB (W37) 7 S UTC-8(-7DT) N47°08.49′ W122°33.66′

SEATTLE

235 TPA-935(700) NOTAM FILE SEA

WATERWAY 02-20: 5500X500 (WATER)

SEAPLANE REMARKS: Attended 1800–0000Z‡. Swimmers and boaters in the area. Day use only recommended. Noise abatement procedures in effect, ctc airport manager 253–589–2489. Arpt underlies McChord AFB CLASS D Airspace.

186 MUTSHINGTON

TACOMA NARROWS (TIW) 4 W UTC-8(-7DT) N47°16.08′ W122°34.69′

294 B S4 FUEL 100LL, JET A OX 4 TPA-1294(1000) LRA NOTAM FILE TIW RWY 17-35: H5002X150 (ASPH-AFSC) S-50, D-80, ST-102, DT-80, DDT-150 MIRI

SEATTLE H-1R I-1D ΙΔΡ ΔΠ

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RWY 17: MALSR. PAPI(P4R)-GA 3.0°. TCH 50'. Rgt. tfc.

RWY 35: REIL. VASI(V4L)-GA 3.0° TCH 51'.

AIRPORT REMARKS: Attended 1500-0600Z‡. Deer on and in vicinity of arpt. Noise sensitive arpt, for noise abatement and tfc procedures call arpt manager 253-853-5844. ACTIVATE MALSR Rwy 17 and PAPI Rwy 17-CTAF. For customs call 253-593-6338 ext #2. Landing fee.

WEATHER DATA SOURCES: ASOS (253) 858-6507. LAWRS

COMMUNICATIONS: CTAF 118.5 ATIS 124.05 UNICOM 122.95

R SEATTLE APP/DEP CON 120.1

TOWER 118.5 (1600-0400Z‡) GND CON 121.8

AIRSPACE: CLASS D svc 1600-0400Z tother times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE TCM.

McCHORD (T) VORTAC 109.6 TCM Chan 33 N47°08.26' W122°28.59' 310° 8.9 NM to fld. 284/22E. No NOTAM MP Thu 0700-1400Z‡.

GRAYE NDB (MHW/LOM) 216 GR N47°09.02'

W122°36.28' 351° 7.1 NM to fld. NOTAM FILE GRF.

Unmonitored when ATCT closed.

ILS 109.1 I-TIW Rwy 17. Class IB. ILS unmonitored when twr clsd.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

TATOOSH N48°17.99′ W124°37.62′. NOTAM FILE SEA.

(H) VORTACW 112.2 TOU Chan 59 151° 21.9 NM to Quillayute. 1652/22E. HIWAS.

RCO 122.25 (SEATTLE RADIO)

SEATTLE H-1A, L-1D

TEKOA

WILLARD FLD (73S) 2 NE UTC-8(-7DT) N47°14.13' W117°02.63'

SEATTLE

B FUEL 100LL NOTAM FILE SEA

RWY 04-22: H2260X40 (ASPH) MIRI RWY 22: P-line.

RWY 04: Tree.

AIRPORT REMARKS: Unattended, Self service fuel with credit card, Parachute Jumping, Grass areas not avbl for acft ops. Rwy 04-22 yellow centerline only. ACTIVATE MIRL Rwy 04-22-122.8.

COMMUNICATIONS: CTAF 122.9

TIETON STATE (See RIMROCK)

TOI FDO

ED CARLSON MEMORIAL FLD-SOUTH LEWIS CO (TDO) 3 N UTC-8(-7DT)

SEATTLE L-1C

N46°28.63' W122°48.39'

374 B S4 FUEL 100 NOTAM FILE TDO

RWY 05-23: H4479X150 (ASPH) S-25 MIRL

RWY 05: REIL. SAVASI(S2L)-GA 3.0° TCH 40'. Windcone.

RWY 23: REIL, PAPI(P2L)—GA 3.0° TCH 40', Fence.

AIRPORT REMARKS: Unattended. 24 hr credit card fuel facility. Parachute Jumping. Radio controlled acft adjacent Rwy 05-23 400' and blo. Distance to go markers S side of rwy. ACTIVATE MIRL Rwy 05-23 and REIL Rwy 05 and Rwy 23-CTAF. SAVASI Rwy 05 and PAPI Rwy 23 opr 24 hrs.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE OLM.

OLYMPIA (H) VORTACW 113.4 OLM Chan 81 N46°58.30' W122°54.11' 153° 29.9 NM to fld. 200/19E. HIWAS.

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SEATTLE.

L-13A

TONASKET MUNI (WØ1) 2 NW UTC-8(-7DT) N48°43.49′ W119°27.94′

1311 B NOTAM FILE SEA

RWY 15-33: H3053X50 (ASPH) MIRL

RWY 15: PAPI(P2L)-GA 5.0° TCH 37'. Ground. Rgt tfc.

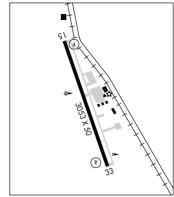
RWY 33: PAPI(P2L)-GA 4.5° TCH 31'. Fence.

AIRPORT REMARKS: Unattended. Mountains surround arpt. For night ops and wind permitting land Rwy 33 and depart Rwy 15. Rwy 15–33 settling and ravelling at ends and along sides. Distance to go markers S side arpt. ACTIVATE MIRL Rwy 15–33—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 338° 80.9 NM to fld. 1250/21E.



TRI-CITIES (See PASCO)

TRINA N46°10.53′ W118°11.77′. NOTAM FILE ALW.
NDB (LOM) 353 AL 198° 6.2 NM to Walla Walla Rgnl.

SEATTLE

SEATTLE

TWISP MUNI (2SØ) 1 SE UTC-8(-7DT) N48°21.04′ W120°05.64′

1602 B NOTAM FILE SEA

RWY 10-28: H2701X36 (ASPH) MIRL (NSTD)

RWY 10: Trees. RWY 28: PAPI(P2L)—GA 4.0°. Thid dsplcd 200'. Road.

AIRPORT REMARKS: Unattended. Mountainous terrain surrounds arpt. Deer and pedestrians on and in vicinity of arpt. Rwy 10–28 NSTD MIRL. Rwy 10 Igtd thid relocated 124'. Rwy 28 Igtd thid relocated 200'. Only 2366' of Rwy 10–28 Igtd for ngt ops. Rwy 28 dsplcd thid marked by Igt fixture. Rwy 10 no rwy markings. ACTIVATE rotating bcn and MIRL Rwy 10–28 and PAPI Rwy 28—CTAF.

COMMUNICATIONS: CTAF 122.9

VANCOUVER N45°41.92′ W122°55.52′

RCO 122.35 (SEATTLE RADIO)

SEATTLE L-1C

VANCOUVER

FLY FOR FUN (W56) 4 NE UTC-8(-7DT) N45°41.24′ W122°31.31′

SEATTLE

297 NOTAM FILE SEA

RWY 07-25: 2434X50(TURF)

RWY 07: P-line. RWY 25: Trees. Rgt tfc.

AIRPORT REMARKS: Unattended. Arpt CLOSED Christmas and Easter. Taxi on rwy and mowed grass areas only.

COMMUNICATIONS: CTAF 122.9

NW, 17 DEC 2009 to 11 FEB 2010

PEARSON FLD (VUO) 2 SW UTC-8(-7DT) N45°37.23′ W122°39.39′

25 S4 FUEL 100LL OX 2 TPA-1025(1000) NOTAM FILE VUO

SEATTLE 1_10

RWY 08-26: H3275X60 (ASPH) MIRI

ΙΔΡ

RWY 08: REIL. VASI(V4R)—GA 3.75° TCH 31'. Bridge. RWY 26: REIL. PAPI(P2R). Thid dsplcd 762'. Tree. Rgt

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 08: TORA-3275 TODA-3275 ASDA-3065 LDA-3065 RWY 26: TORA-3275 TODA-3275 ASDA-3275 LDA-2513

AIRPORT REMARKS: Attended Nov-Mar Mon-Fri 1630-0130Z‡, Apr-Oct Mon-Fri 1600-0400Z‡. Self service fuel avbl 24 hrs by credit card. Geese on and invof arpt. Rwy 08 thld relocated 762' for ngt ops, 2513' of Rwy 08-26 usable at ngt. When operating over the rwy centerline or rwy centerline extended—maintain at or blo 700' MSL due to tfc and wake turbulence from overflying acft to/from Portland International arpt Rwy 10L-28R. Portland International arpt Rwy 10L-28R extended centerline crosses Pearson Rwy 08 thld. Rwy 08-26 860' stopway on west end. Rwy 08 VASI unusable byd 6° left and right of rwy centerline.

WEATHER DATA SOURCES: ASOS 135.125 (360) 696-1280.

COMMUNICATIONS: CTAF/UNICOM 123.0

VANCOUVER RCO 122.35 (SEATTLE RADIO)

R PORTLAND APP CON 118.1 (100°-279°) 124.35 (280°-099°)

RPORTLAND DEP CON 124.35

CINC DEL 121 65

VFR ADVSY SVC 119.0

AIRSPACE: CLASS D syc continuous. Acft will ctc Portland Intl. or twr Clnc Del on 119.0 prior to entering Class D airspace and prior to dep.

RADIO AIDS TO NAVIGATION: NOTAM FILE PDX.

BATTLE GROUND (H) VORTACW 116.6 BTG Chan 113 N45°44.87′ W122°35.49′ 179° 8.1 NM to fld. 253/21E.

LDA 111.3 I-IAP Rwv 08.

COMM/NAV/WEATHER REMARKS: Arrivals ctc Portland twr on 119.0 prior to entering CLASS D airspace for traffic and wake turbulence advisories. Departures ctc Portland twr on 119.0 prior to dep.

VASHON MUNI (2S1) 1 NW UTC-8(-7DT) N47°27.52′ W122°28.45′

SEATTLE

316 TPA-1299 (983) NOTAM FILE SEA

RWY 17-35: 2001X60 (TURF) LIRL (NSTD)

RWY 17: Trees. Rgt tfc. RWY 35: Road.

AIRPORT REMARKS: Unattended. Occasional large wild animals on arpt. Rwy 17-35 soft when wet. Hangars 90' east and west of centerline. Deep ditch 5-10' west of rwy edge the full length. Touch and go ldgs not recommended. Turbulence possible at N end of Rwy 17-35 with strong crosswinds. Helicopter parking area restricted to Medevac ops. Use noise abatement procedures climb straight ahead to 700' AGL. Recommend calling for fld conditions 206-463-3142. Night operations only for pilots familiar with arpt close in obstructions. Rwy 17-35 NSTD LIRL, thid lgts 360° green.

COMMUNICATIONS: CTAF 122.9

HELIPAD H1: 98X98 (TURF) RWY LGTS (NSTD)

HELIPORT REMARKS: Helipad H1 yellow perimeter lgts. Helipad H1 for medivac emerg svcs only.

VISTA FLD (See KENNEWICK)

Not insp

WALLA WALLA

PAGE (9W2) 2 S UTC-8(-7DT) N46°00.99' W118°22.23'

SEATTLE

800 NOTAM FILE SEA **RWY 09-27:** 2000X25 (TURF)

RWY 09: Ret tfc.

AIRPORT REMARKS: Unattended. COMMUNICATIONS: CTAF 122.9

WALLA WALLA RGNL (ALW) 3 NE UTC-8(-7DT) N46°05.69′ W118°17.34′

1194 B S4 FUEL 100LL, JET A OX 2 Class I, ARFF Index A NOTAM FILE ALW H-1C,

4486 X 150

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948

RWY 02–20: H6527X150 (ASPH-GRVD) S-60, D-72, DT-110 HIRL 0.6% up NE

H-1C, L-13A IAP, AD

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 45'.

RWY 20: MALSR. PAPI(P4L)—GA 3.0° TCH 50'.

RWY 16-34: H5948X150 (ASPH-CONC) S-40, D-55,

DT-105 0.3% up SE

RWY 16: Ground.

RWY 07-25: H4486X150 (ASPH-CONC) S-42, D-55,

DT-105 1.3% up E.

AIRPORT REMARKS: Attended 1600–0100Z‡. Self svc credit card fueling facility located 600′ N of tower. For svc after hours call 509–529–4243. ARFF services avbl during scheduled air carrier opr. CLOSED to unscheduled air carrier ops with more than 30 passenger seats except PPR call arpt manager 509–525–3100. Rwy 07–25 CLOSED to scheduled air carrier opr. Rwy 16–34 CLOSED to scheduled air carrier opr. Rwy 16–34, Twy G clsd to air carrier opr. Rwy 07–25 large cracks and surface variations may impair directional control of Part 139 air carrier acft. Rwy 16–34 large cracks and surface variations. Rwy 16–34 taxiways F and G closed to air carrier opr. When twr clsd ACTIVATE MALSR Rwy 20, REIL Rwy 02, HIRL Rwy 02–20 and PAPI Rwy 02 and Rwy

20—CTAF.
WEATHER DATA SOURCES: ASOS 135.875 (509) 525–3014.
COMMUNICATIONS: CTAF 118.5

RCO 122.3 (SEATTLE RADIO)

R CHINOOK APP/DEP CON 133.15 (1400-0600Z‡).

R SEATTLE CENTER APP/DEP CON 132.6 (0600-1400Z‡).

TOWER 118.5 (1430-0300Z‡) GND CON 121.6

AIRSPACE: CLASS D svc 1430-0300Z‡ other times CLASS E.

 $\textbf{RADIO AIDS TO NAVIGATION:} \ \ \mathsf{NOTAM} \ \ \mathsf{FILE} \ \ \mathsf{ALW}.$

(L) VORW/DME 116.4 ALW Chan 111 N46°05.22′ W118°17.55′ at fld. 1179/20E.

VOR/DME portions unusable:

010°-065° byd 31 NM blo 12,500′

095°-140° byd 20 NM blo 13,500′

065°-095° byd 20 NM blo 14,500′

DME portion unusable: 140°-145° byd 20 NM blo 11,500′

TRINA NDB (LOM) 353 AL N46°10.53′ W118°11.78′ 199° 6.2 NM to fld.

ILS 111.7 I—ALW Rwy 20. Class IE. LOM TRINA NDB.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

WALLULA N46°01.36′ W118°51.52′

RCO 122.6 (MC MINNVILLE RADIO)

SEATTLE L-13A WARDEN (2S4) 1 W UTC-8(-7DT) N46°57.95′ W119°03.98′

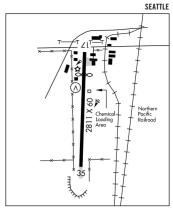
1276 B NOTAM FILE SEA

RWY 17-35: H2811X60 (ASPH)

RWY 17: SAVASI(S2R). Thid dsplcd 560'.

AIRPORT REMARKS: Unattended. Rwy 17-35 320' grvl overrun south end. Rwy 17-35 centerline paint chipping. No rwy numbers.

COMMUNICATIONS: CTAF 122.9



WATERVILLE (2S5) 1 NE UTC-8(-7DT) N47°39.36′ W120°03.39′

2645 B FUEL 100LL NOTAM FILE SEA RWY 07-25: H2978X50 (ASPH) S-5 MIRL

RWY 07: Thid dspicd 270'. Road.

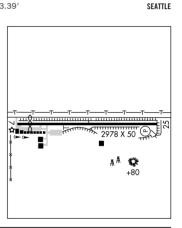
RWY 25: PAPI(P2L)-GA 3.0°. Pole.

AIRPORT REMARKS: Attended Mon-Fri 1600-0100Z‡. First 272' of west end Rwy 07-25 unlgtd.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68' W119°25.44' 282° 30.7 NM to fld. 1250/21E.



WATON N48°04.57′ W122°09.23′. NOTAM FILE AWO. NDB (LOM) 382 AW 338° 5.1 NM to Arlington Muni.

SEATTLE

SEATTLE

L-13A

WENATCHEE N47°23.98′ W120°12.65′ NOTAM FILE EAT.

(L) VORW/DME 111.0 EAT Chan 47 at Pangborn Mem. 1224/19E. HIWAS. DME unmonitored. HIWAS unavailable.

VOR/DME unusable:

303°-073° byd 20 NM

073°-118° byd 25 NM blo 5,500'

118°-153° byd 15 NM blo 14,500′

RCO 122.6 (SEATTLE RADIO)

153°-243° byd 15 NM

243°-263° byd 35 NM blo 12,000'

290°-303° byd 14 NM blo 7,900′

WENATCHEE

PANGBORN MEM (EAT) 4 E UTC-8(-7DT) N47°23.89' W120°12.34'

1249 B S4 **FUEL** 100LL, JET A 0X 1, 2 Class I, ARFF Index B NOTAM FILE EAT **RWY 12-30**: H5700X150 (ASPH-GRVD) S-75, D-100, ST-97, DT-250 MIRL

H-1B, L-1D, 13A

SEATTLE.

RWY 12: REIL. PAPI(P4L)—GA 3.6° TCH 50'. Road. Rgt tfc.

RWY 30: RAIL, REIL.

RWY 07–25: H4460X75 (ASPH) S–50, D–77, ST–97, DT–136 1.0% up SE

RWY 07: Tree. Rgt tfc.

RUNWAY DECLARED DISTANCE INFORMATION

 RWY 07:
 TORA-4460
 TODA-4460
 ASDA-4460
 LDA-4460

 RWY 12:
 TORA-5700
 TODA-5700
 ASDA-5700
 LDA-5700

 RWY 25:
 TORA-4460
 TODA-4460
 ASDA-4460
 LDA-4460

 RWY 30:
 TORA-5700
 ASDA-5700
 LDA-5700

RWY 30: TORA-5700 TODA-5700 ASDA-5700 LDA-5700
AIRPORT REMARKS: Attended continuously. Rwy 07-25 CLOSED to all night operations. CLOSED to air carrier operations. Rwy 07-25 has extensive cracks, vegetation, and surface deterioration. Rwy 12 preferred no wind rwy. 24 hr PPR for unscheduled air carrier operations with more than 30 passenger seats call arpt ops, 509-860-1852. Bird hazard. Glider activity from Mar-Nov. Reflectors on Twys D and F only. ACTIVATE MIRL Rwy 12-30, REIL

WEATHER DATA SOURCES: ASOS 119.925 (509) 886-4226.

HIWAS 111.0 EAT.

COMMUNICATIONS: CTAF/UNICOM 123.0

Rwy 12 and Rwy 30-CTAF.

BADGER MOUNTAIN RCO 122.3 (SEATTLE RADIO)

WENATCHEE RCO 122.6 (SEATTLE RADIO)

SEATTLE CENTER APP/DEP CON 126.1

RADIO AIDS TO NAVIGATION: NOTAM FILE EAT.

WENATCHEE (L) VORW/DME 111.0 EAT Chan 47 N47°23.98′ W120°12.65′ at fld. 1224/19E. HIWAS. DME unmonitored.

 $\label{eq:local_local_local_local} \textbf{ILS/DME} \ 109.35 \qquad \text{I-ADJ} \qquad \text{Chan 30(Y) Rwy 12. LOC unusable byd 15 NM blo 5700'}.$

COMM/NAV/WEATHER REMARKS: HIWAS unavailable.

WESTPORT (14S) 1 N UTC-8(-7DT) N46°53.82′ W124°06.05′

SEATTLE

14 NOTAM FILE SEA

RWY 12-30: H2318X50 (ASPH) MIRL

RWY 12: VASI(V2L). RWY 30: VASI(V2L). Rgt tfc.

AIRPORT REMARKS: Unattended. Large bird nesting area adjacent to Rwy 12–30. Rwy 12–30 soft shoulders.

COMMUNICATIONS: CTAF 122.9

WHATCOM N48°56.72′ W122°34.76′ NOTAM FILE BLI

(H) VORTACW 113.0 HUH Chan 77 150° 9.3 NM to Bellingham Intl. 83/20E HIWA

SEATTLE H-1B, L-1E

WHIDBEY AIR PARK (See LANGLEY)

192 WASHINGTON

WHIDBEY ISLAND NAS (AULT FLD) (NUW) (KNUW) N 3 N UTC-8(-7DT) SFATTLE N48°21.11' W122°39.36' H-1B. L-1E 47 B TPA—See Remarks NOTAM FILE NUW DIAP. AD Not insp. RWY 14-32: H8001X200 (CONC) PCN 73 R/B/W/T HIRI CI RWY 32: ALSF1. OLS. TDZL. REIL. RWY 14: ALSF1. OLS. TDZL. REIL. RWY 07-25: H8000X200 (CONC) S-142, D-257, DT-445 PCN 45 R/B/W/T RWY N7: OLS REII RWY 25: ALSF1. REIL. OLS. APRESTING GFAR/SYSTEM **RWY 14** ← HOOK E5 (15' OVRN) HOOK E28(B) (1420') HOOK E28(B) (1925') HOOK E5 (15' OVRN →) RWY 32 **RWY 07** ← HOOK E5 (15' OVRN) HOOK E28(B) (2425') HOOK E28(B) (1930') HOOK E5 (15' OVRN →) RWY 25 MILITARY SERVICE: A-GEAR E5 RATINGS-07-355 HEAVY WEIGHT (DRY), 25-335 HEAVY WEIGHT (DRY), 14-620 HEAVY WEIGHT (DRY), 32-595 HEAVY WEIGHT (DRY), JASU 1(NC-8A/A1) 1(NC-10C) 1(GTC-85/GTE-85) 1(NCPP-105/RCPT-105) FUEL J8. J5 FLUID SP PRESEAIR De-ice LHOX LOX **III** 0-156 SOAP TRAN ALERT Transient crews must be ready to provide technical direction/assistance in svc/maintenance. Ltd svc/maintenance avbl Mon-Fri 1500-2300Z‡, no maintenance Sat, Sun and holidays. Air terminal opr 1400-0200Z±, as rgr other times. MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Information. RSTD PPR for all acft except Search and Rescue/Medevac ctc Air Terminal Supervisor, 1430-0100Z‡ at DSN 820-2604/6707, C360-257-2604/6707. Prior coordination/flt advisory rgr for AMC/JOSAC/NALO missions. CAUTION Rwy 14-32 portion of SE end between 3000' and 2000' remaining marker not fully visible from twr. All E5 overrun A-Gear rigged at all times, accidental engagement in the wrong direction will result in acft damage and may result in injury or loss of life. Bird hazard, See FLIP AP/1 Supplementary Arpt Remark. IFC PAT TPA—Overhead initial 3000(2953), overhead break 1500(1453) day, 1700(1653) night, pattern alt 1000(953) day, 1200(1153) night. Reduced rwy separation standard in effect USN/USMC acft, UHF equipped acft use UHF twr frequency, CSTMS/AG/IMG Avbl only for Whidbey based military acft from Canada, 48 hr prior notice, ctc OPS Duty Officer DSN 820-2681/2682, C360-257-2681/2682, Base OPS DSN 820-2884/2885, C360-257-2884-2885, MISC Precision Approach and Landing Systems Data Link frequency 313.3, TRN-28 Chan 18. COMMUNICATIONS: ATIS 134.15 281.5 (R) APP/DEP CON 118.2 285.65 (West) 120.7 270.8 (East) TOWER 127.9 340.2 GND CON 121.75 336.4 CLNC DEL 124.15 135.1 379.9 PRE TAXI CLNC 124.15 135.1 380.0 PMSV METRO 343.4 BASE OPS 350.1 AIRSPACE: CLASS C svc ctc APP CON RADIO AIDS TO NAVIGATION: NOTAM FILE NILW (H) TACAN NUW (113.8) Chan 85 N48°21.30′ W122°39.71′ at fld. 51/18E. TACAN unusable 133°-163° byd 30 NM blo 4,000'. ILS 110.1 I-NUW Rwy 14. Unusable byd 3° W of course and byd 5° E of course due to lack of defined

IL\$ 110.1 I–NUW Rwy 14. Unusable byd 3° W of course and byd 5° E of course due to lack of defined glide path and clearance above path. GS unusable byd 5° left and 3° right of course.

ASR/PAB

COMM/NAV/WEATHER REMARKS: VFR advisory svc ctc APP CON. Pre-taxi clnc 135.1 used for pre taxi clnc at NUW, 124.15 on gnd clnc del at CLM—Port Angeles. Radar see Terminal FLIP for Radar Minima.

WILBUR (2S8) 2 SW UTC-8(-7DT) N47°45.25′ W118°44.59′ 2182 B FUEL 100LL, JET A NOTAM FILE SEA

RWY 02-20: H3119X35 (ASPH) MIRL

AIRPORT REMARKS: Attended Mon–Fri 1600–0100Z‡. GrvI twy not useable. Rwy 02–20 gravel on shoulders is soft and deep. Acft on agricultural ramp, NE side of arpt parked in primary surface. ACTIVATE MIRL Rwy 02–20 and rotating bon—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 030° 35.7 NM to fld. 1250/21E.

SEATTLE

L-13A

WILLARD FLD (See TEKOA)

WILLAPA HARBOR (See SOUTH BEND (RAYMOND))

WILLIAM R FAIRCHILD INTL (See PORT ANGELES)

WILL ROGERS WILEY POST MEM SPB (See RENTON)

WILCON ODEEN

WILSON CREEK (5W1) 1 E UTC-8(-7DT) N47°25.49′ W119°06.90′

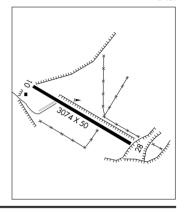
SEATTLE L-13A

1440 NOTAM FILE SEA RWY 10–28: H3074X50 (ASPH) AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 056° 12.9 NM to fld. 1250/21E.



WINTHROP

METHOW VALLEY STATE (S52) 3 SE UTC-8(-7DT) N48°25.50′ W120°08.75′

SEATTLE H-1B. L-13A

1706 B NOTAM FILE SEA

RWY 13-31: H5049X75 (ASPH) S-30 MIRL

RWY 13: Thid dsplcd 129'. Fence.

RWY 31: Thid dspicd 231'. Road.

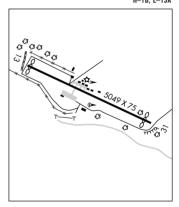
AIRPORT REMARKS: Unattended. Heavily loaded acft may be making straight out departures and long final apch all dalgt hours May–September. Mountainous terrain surrounds arpt. ACTIVATE rotating bcn—CTAF. ACTIVATE MIRL Rwy 13–31—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.425 (509) 997-0142.

COMMUNICATIONS: CTAF/UNICOM~122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE EPH.

EPHRATA (H) VORTACW 112.6 EPH Chan 73 N47°22.68′ W119°25.44′ 314° 69.3 NM to fld. 1250/21E.



WOODLAND STATE (W27) 1SE UTC-8(-7DT) N45°53.93′ W122°44.24′

SEATTLE

29 NOTAM FILE SEA

RWY 14-32: H1953X25 (ASPH) LIRL

RWY 14: Thid dspicd 290'. Pole. Rgt tfc. RWY 32: Brush.

AIRPORT REMARKS: Unattended. Pedestrians, vehicles and animals on or invof rwy. 12' dike northwest end. Extreme turbulence possible when winds from the east. P–lines and building in apch to Rwy 14. Rwy 32 trees, bridge, low hill at southeast end.

COMMUNICATIONS: CTAF 122.9

194 WASHINGTON

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YAKIMA AIR TERMINAL/MCALLISTER FLD (YKM)(KYKM) P 3 S UTC-8(-7DT)
                                                                                                  SEATTLE
      N46°34 09' W120°32 64'
                                                                                               H-1R I-13A
  1099 B S4 FUEL 100LL, JET A OX 1, 3 Class I, ARFF Index A NOTAM FILE YKM
                                                                                              IAP, DIAP, AD
  RWY 09-27: H7604X150 (ASPH-PFC) S-95, D-160, ST-175, DT-220, DDT-550 PCN 33 F/C/X/T
    HIRL 0.7% up W
    RWY 09: REIL. VASI(V4L)—GA 3.0° TCH 50'.
                                                 RWY 27: MALSR. PAPI(P4L)-GA 3.0° TCH 59'. Road.
  RWY 04-22: H3835X150 (ASPH-PFC) S-70, D-80, ST-102, DT-120 PCN 28 F/C/X/T MIRL 0.5% up SW
    RWY 04: REIL. PAPI(P4L)-GA 3.0° TCH 50'.
                                               RWY 22: REIL. PAPI(P4L)-GA 3.03° TCH 47'.
  RUNWAY DECLARED DISTANCE INFORMATION
    RWY 04: TORA-3835 TODA-3835 ASDA-3835 LDA-3835
    RWY 09: TORA-7604 TODA-7604 ASDA-7604 LDA-7604
    RWY 22: TORA-3835 TODA-3835 ASDA-3835 LDA-3835
    RWY 27: TORA-7604 TODA-7604 ASDA-7604 LDA-7604
  AIRPORT REMARKS: Attended continuously. Be alert: Birds invof Yakima River 5 NM east of approach to Rwy 27. Rwy
    04-22 some spalling and raveling. PPR for unscheduled air carrier ops with more than 30 passenger seats, call
    arpt manger 509-575-6149/6014. Twy B from approach end of Rwy 22 to Twy A rstd to acft with wingspans 79'
    or less. When twr clsd ACTIVATE HIRL Rwy 09-27 and MALSR Rwy 27-CTAF.
  WEATHER DATA SOURCES: ASOS (509) 248-1502.
  COMMUNICATIONS: CTAF 133.25 ATIS 125.25 UNICOM 122.95
    RCO 122.5 (SEATTLE RADIO)
                                                      SEATTLE CENTER APP/DEP CON 132.6 269.35 (0600-1400Z±)
    CHINOOK APP/DEP CON 123.8 263.15 (1400-0600Z±)
    TOWER 133.25 (1400-0600Z‡) GND CON 121.9 CLNC DEL 121.9
  AIRSPACE: CLASS D svc 1400-0600Z‡ other times CLASS E.
  RADIO AIDS TO NAVIGATION: NOTAM FILE YKM.
    (H) VORTACW 116.0
                      YKM
                            Chan 107 N46°34.21′ W120°26.68′ 247° 4.1 NM to fld. 984/21E.
     VOR portion unusable:
       350°-080° byd 25 NM blo 9,000′
                                                                109°-135° byd 25 NM bIO 6,000'
       025°-035° byd 5 NM blo 6,000'
                                                                135°-180° byd 30 NM blo 7,500'
       080°-105° byd 35 NM blo 6,000'
                                                                195°-225° byd 30 NM blo 8,500′
       105°-107° byd 25 NM blo 6,000′
                                                                305°-335° byd 30 NM blo 9,000'
     DME unusable:
       095°-115° byd 26 NM blo 8,000'
                                                                207°-230° byd 20 NM bIO 10,000'
       095°-115° byd 35 NM
                                                                290°-315° byd 20 NM blo 11,000'
       115°-207° byd 20 NM blo 8,500′
                                                                315°-080° byd 12 NM blo 15,000′
       115°-207° byd 36 NM blo 10,000′
    DONNY NDB (LOM) 371 YK N46°31.54′ W120°22.33′ 274° 7.6 NM to fld. Unmonitored when twr clsd.
    ILS 110.1 I-YKM
                        Rwy 27. LOM DONNY NDB. ILS unmonitored when tower closed.
    COMM/NAV/WEATHER REMARKS: During hours twr is clsd all ops in vicinity of arpt restricted to acft with VHF radio
      capability, unless an emerg exist necessitating UHF equipped acft to land.
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VFR ADVISORY AREA Canadian Airspace VICTORIA-VANCOUVER

(Effective: Until Further Notice)

Effective 0901 UTC August 6, 1994, a VFR Advisory Area was permanently established between the two Canadian control zones, from above 1,200′ MSL up to 2,500′ MSL. Vancouver and Victoria Towers provide radar traffic information to all participating aircraft within the VFR Advisory Area.

PROCEDURES

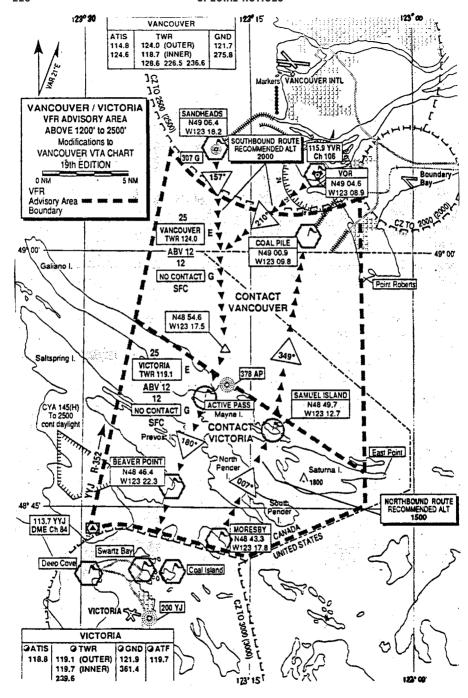
Victoria/Vancouver

- *All aircraft operating between Victoria and Vancouver within the VFR Advisory Area should follow the routes shown on the graphic.
 - *Northbound: Change from Victoria Tower, 119.1, to Vancouver Tower, 124.0, when instructed by ATC.
 - *Southbound: Change from Vancouver Tower, 124.0, to Victoria Tower, 119.1, when instructed by ATC.
 - *Set transponder codes as requested.

TRANSITING TRAFFIC

- *Call Vancouver Tower on 124.0 when north of the Active Pass/Samuel Island Line.
- *Call Victoria Tower on 119.1 when south of the Active Pass/Samuel Island Line.
- *Set Transponder codes as requested.

Routes and recommended altitudes will not be useable by all aircraft at all times because of weather and regulations pertaining to flight over water. Higher altitudes may be requested. If unable to maintain VFR, advice ATC.



CONTROLLED FIRING Fort Harrison Controlled Firing Area Helena, Montana

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, 5'800 MSL and BELOW. The area defined by the following radial/DME coordinates HLN258008, HLN258005, HLN250008, HLN250005.

CONTROLLED FIRING Limestone Hills Controlled Firing Area Helena, Montana

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, FL180 and BELOW. The area defined by the following radial/DME coordinates HLN125026, HLN127028, HLN140025, HLN125028.

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area: 123.45 MHz
Caribbean area: 123.45 MHz
Pacific area: 123.45 MHz

MOUNT ST. HELENS NATIONAL VOLCANIC MONUMENT. WASHINGTON

The U.S. Geological Survey (USGS) and the U.S. Forest Service (USFS) conduct low level flights to and from monitor station within the monument and within the crater itself. Due to this activity, the volatility of the volcano and a high volume of sightseeing flights in the area, the following procedures are recommended in the interest of flying safety.

- 1. VFR aircraft are encouraged to transmit an initial position report on 122.75 MHz in the blind when flying at altitudes of less than 10,000 feet MSL within 10 nautical miles of the Mount St. Helens volcano crater.
- 2. VFR flight below 3000 feet AGL strongly not recommended.
- 3. VFR flight above 3000 feet AGL fly a counterclockwise pattern, no closer than 3 miles to the volcano summit.

VFR rules of "see and be seen" and good airmanship practices will prevail. Approval to land can only be obtained through appropriate Federal or State authority. Any significant information will be broadcast on the transcribed weather broadcasts by the Seattle and McMinnville Flight Service Stations and available on the Portland and Seattle ATIS. Marginal radar coverage limits Seattle Center's ability to provide radar flight following to aircraft in orbit of the volcano.

DEVILS TOWER NATIONAL MONUMENT, WYOMING

For reasons of national welfare, pilots are requested to avoid flights within 3 nautical miles of Devils Tower National Monument.

BIRD HAZARD OREGON AND WASHINGTON

Heavy concentration of migratory and wintering flocks of large waterfowl from the Canadian to California borders annually November to May. Caution advised at all airports or while transiting area.

SIMULTANEOUS OPERATIONS Boeing Field/King County International Airport Seattle. Washington

All users: Boeing Field Airport Traffic Control Tower is authorized to conduct simultaneous same direction operations to parallel runways, between sunrise and sunset, for Category II aircraft and smaller.

Spokane International Airport Spokane, Washington

Application of visual separation for simultaneous operations. When weather conditions at Spokane International Airport are 1500' ceiling and 5 miles visibility or greater Spokane International Airport controllers may provide visual separation of aircraft landing and departing simultaneously at Spokane International Airport and Fairchild Airforce Base.

LASER LIGHT DEMONSTRATIONS Bozeman, Montana

A laser light demonstration will be conducted daily between 0000 and 2359 MDT until June 24, 2010 at Montana State University BZN VORTAC 129 radial at 8 NM LAT 45–39–59N/Long 111–02–44W. The laser beam elevation will be a maximum of 090 and a minimum of 089. The beam may be injurious to eyes when viewed within 12000 feet AGL vertically and 500 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

SEATTLE-TACOMA INTL SEATTLE, WASHINGTON

Gatehold Procedures:

During peak departure periods, gatehold procedures are implemented for all IFR departures. Additional information will be broadcast on ATIS.

Oceanic Departures:

- 1. Contact Clearance Delivery *only* when you will be ready to taxi within ten minutes. State destination, requested altitude, "ten minutes to taxi."
- 2. If ATC delays are more than 15 minutes for your filed altitude/route, alternatives with less delay will be offered.
- 3. Failure to depart the gate within ten minutes or reach the runway at the release time specified in the IFR clearance may result in the cancellation of your clearance.

MOUNTAIN HOME, IDAHO

All aircraft operating within 20 NM of the Liberator VOR are requested to contact Mountain Home APP CON on 124.8 for traffic advisory due to intensive military training in the Mountain Home area.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission. Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or water administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
- 2. Wind Measuring Capability
- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability
- 5. Touchdown Zone Lighting (TDZL)
- 6. Centerline Lighting (CL)
- 7. Runway Visual Range (RVR)
- 8. High Intensity Runway Lighting (HIRL)
- 9. Taxiway Lighting
- 10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Andrews AFB, MD (ADW)	01L	Minneapolis, MN (MSP)	30L
Anchorage, AK (ANC)	07R	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA))	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

Night Vision Lights Out Operations Yakima Training Center, Washington

Military helicopter activity will be conducted for night vision lights out training at Yakima Training Center, Washington. Position lights will be extinguished or greatly reduced in intensity. The training will be conducted within the confines of the YTC reservation but outside of the restricted airspace. The general description of the night vision goggle (NVG) training area is that airspace bordered by R-6714H on the south, Highline Canal on the west, the southern edge of Interstate 90 on the north, and Ginko State Park Petified Forest on the east.

The boundaries of the NVG area are:

Beginning at lat. $46^\circ55'03''N$, long. $120^\circ01'34''W$; to lat. $46^\circ55'40''N$, long. $120^\circ01'35''W$; to lat. $46^\circ55'39''N$, long. $120^\circ02'52''W$; to lat. $46^\circ56'15''N$, long. $120^\circ02'52''W$ thence west along the southern edge of Interstate 90; to lat. $46^\circ57'21''N$, long. $120^\circ18'08''W$; thence west/southwest along the Highline Canal; to lat. $46^\circ55'24''N$, long. $120^\circ19'55''W$; to point of beginning.

Times of use: Sunset to sunrise, daily.

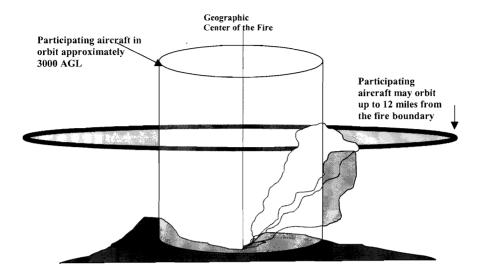
Request Publication date of May 22, 1997.

Please refer any questions to James Riley, ANM-532.2, at (206) 227-2537.

LIGHTS-OUT OPERATIONS Hays MOA, Montana

Lights—out night vision goggle training operations conducted within the Hays MOA at all altitudes from sunset to sunrise when MOA is active by NOTAM. Contact Salt Lake City ARTCC on 133.4 or 119.75 or Great Falls FSS for schedule and NOTAM information.

FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY. LAGUARDIA. AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll–free telephone number for accessing e–CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll–free areas may access e–CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e–CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high–density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e–CVRS.

FSS Telephone numbers

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Purerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part–time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

NORTHWEST U.S.

WASHINGTON: Seattle, Boeing Field/King County International (BFI)-SEA FSS

<u>Telephone Information Briefing Service (TIBS)</u> is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above)	1-877-4TIBS-WX(1-877-484-2799)
Clearance Delivery Only	1-888-766-8267
Lifeguard Flights Only	1-877-LIF-GRD3 (1-877-543-4733)
Flights within DC SERA & FR7 *	1-866-225-7410

^{*} District of Columbia Special Flight Rules Area & Flight Restricted Zone

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB

FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF-routine or <u>TAF AMD-amended forecast, METAR-hourly, SPECI-special or TESTM-non-commissioned ASOS report</u></u>	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or VaRiaBle); next 2-3 digits for speed and unit, KT (KMH or MPS); as needed, Gust and maximum speed; 00000KT for calm; for METAR, if direction varies 60 degrees or more, Variability appended, e.g. 180V260	22015G25KT
5SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; "/"; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992
L		

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Forecast	Explanation	Report
WS010/31022KT	In U.S. TAF , non-convective low-level (≤2,000 ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	
	In METAR , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level Pressure in hectoPascals & tenths</u> , as shown: 1004.5 hPa; <u>Temp/dew-point in tenths</u> °C, as shown: temp. 18.2°C, dew-point 15.9°C	RMK SLP045 T01820159
FM1930	<u>FroM</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
TEMPO 2022	TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period	
PROB40 0407	PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period	
BECMG 1315	BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF. No Significant Weather.

QUA	LIFIER					
Intens	sity or Proximity	1				
- Li	ight	"no sign" Moderate	+ 1	leavy		
VC	Vicinity: but not	at aerodrome; in U.S. M	ETA	R, between 5 and 1	0SM	of the point(s) of
	observation; in	U.S. TAF, 5 to 10SM from	n ce	nter of runway comp	lex ((elsewhere within 8000m)
Descr		•		, , ,	,	,
	Shallow	BC Patches	PR	Partial	TS	Thunderstorm
BL	Blowing	SH Showers	DR	Drifting	FΖ	Freezing
WEA	THER PHEN	OMENA				
Precip	pitation					
DZ [*]	Drizzle	RA Rain	SN	Snow	SG	Snow grains
IC	Ice crystals	PL Ice pellets	GR	Hail	GS	Small hail/snow pellets
UP	Unknown precip	pitation in automated obs-	erva	tions		·
Obscu	uration					
BR	Mist (≥5/8SM)	FG Fog (<5/8SM)	FU	Smoke	V۸	Volcanic ash
SA	Sand	HZ Haze	PΥ	Spray	DU	Widespread dust
Other						
		SS Sandstorm		Duststorm	PO	Well developed
FC	Funnel cloud	+FC tornado/waterspout	1			dust/sand whirls

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility. NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fosts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052 National Oceanic and Atmospheric Administration—National Weather Service

Air Traffic Control System Command Center

Main Number......703–904–4400

RGNL AIR TRAFFIC DIVISIONS			
REGION	TELEPHONE		
Alaskan	907-271-5464		
Central	816-329-2500		
Eastern	718-553-4502		
Great Lakes	847-294-7202		
New England	781-238-7500		
Northwest Mountain	425-227-2500		
Southern	404-305-5500		
Southwest	817-222-5500		
Western Pacific	310-725-6500		

AIR ROUTE TRAFFIC CONTROL (CENTERS	(ARTCCs)
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ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the RgnI Duty Officer during non-business hours.

FAA AND NWS KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m4:30 p.m.	301-735-2380
Baltimore/Washington			
Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m4:30 p.m.	704–344–6487
Chicago Midway, IL	847-294-8400	8:00 a.m4:00 p.m.	773–884–3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708–294–7401	8:00 a.m4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m4:00 p.m.	734–955–5000
Fairbanks Intl, AK	907–271–5936	7:30 a.m.–4:00 p.m.	907–474–0050
Fort Lauderdale Intl, FL	404–305–5180	7:00 a.m3:30 p.m.	305–356–7932
George Bush	047 000 5000	7:20 4:00	742 020 0400
Intercontinental/Houston, TX	817-222-5006 404-305-5180	7:30 a.m4:00 p.m. 7:00 a.m3:30 p.m.	713–230–8400 404–669–1200
Hartsfield–Jackson Atlanta Intl, GA Honolulu Intl, HI	310-643-3200	7:30 a.m.–4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.–5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.–4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.–4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.–4:00 p.m.	816–329–2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.–4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.–3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.–4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m4:00 p.m.	612-713-4000
Nashville Intl, TN	404–305–5180	7:00 a.m.–3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m4:30 p.m.	919-840-5544
Ronald Reagan Washington			
National, DC	718-995-5426	8:00 a.m4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m3:30 p.m.	650-876-2883
San Juan Intl, PR	404–305–5180	7:30 a.m5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m4:00 p.m.	206-214-4600
St. Louis Lambert, MO	816-329-3000	7:30 a.m4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907–271–5936	7:30 a.m4:00 p.m.	907–271–2700
Teterboro, NJ	718-995-5426	8:00 a.m4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718–995–5426	8:00 a.m4:30 p.m.	703–661–6031
West Palm Beach, FL	404–305–5180	8:00 a.m.–4:30 p.m.	407–683–1867
Westchester Co, NY	718–995–5426	8:00 a.m4:30 p.m.	914–948–6520

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

```
RDENVER CENTER - 125.9
                                                            H-1-2-3-4-5-6, L-8-9-10-11-12-13-14-15
  Casper - 135.6 118.925
                                                                                                (KZDV)
  Cherokee - 132.1
  Cheyenne - 134.575 133.175 132.1 125.9
  Laramie - 125.9
  Lusk - 135.6
  Medicine Bow - 133.175 132.1 126.5
  Rock Springs - 128.5
  Sundance - 135.6 133.675
RSALT LAKE CITY CENTER
                                                                            H-1-2-3. L-9-11-12-13-14
  Ashton - 132.4 132.4 128.35 128.35
                                                                                                (KZLC)
  Baker - 128.05
  Big Piney - 128.35 128.35
  Billings - 127.75 127.75
  Blackfoot - 128.35 128.35
  Bliss - 128.55 118.05
  Boise - 118.05
  Bozeman - 132.4 132.4
  Burley - 118.05
  Butte - 133.4 133.4 132.4 132.4
  Cascade - 121.15
  Francis Peak - 127.7
  Glasgow - 126.85 126.85
  Great Falls - 133.4 133.4 132.425
  Green River - 124.35 124.35
  Jackson - 133.25 133.25
  Judith Mountain - 133.4 133.4 126.85 126.85
  Lakeside - 133.4
  Lovell - 133.25 133.25
  Malad City - 126.75
  Miles City - 126.85 126.85
  Missoula - 133.4 119.75 119.75
  Rome - 128.05
  Salmon - 132.4 132.4
  Sheridan - 127.75 127.75
  Squaw Butte - 128.05 121.15
  Thermopolis - 133.25 133.25 124.35 124.35
(R)SEATTLE CENTER
                                                                                  H-1-3, L-1-2-11-13
  Antelope Mountain - 124.85
                                                                                                (KZSE)
  Arcata - 124.85
  Badger Mountain - 127.05 127.05 134.95 134.95
  Beacon Hill - 127.05 127.05 120.3 120.3
  Cottonwood - 123.95 118.55
  Dallesport - 126.6 126.6
  Fort Lawton - 127.05 127.05
  Hoguiam - 128.3
  Horton - 132.075 125.8 121.4
  Kimberly - 135.45
  Klamath Falls - 134.9 127.6
  Lakeside - 123.95
  Lakeview - 135.35 127.6
  Larch Mountain - 128.3 128.3 126.6 126.6
  Marlin - 126 1
  Medford - 135.15 124.85 121.4
  Mohler - 128.45
  Mullan Pass - 128.45
  Nassel - 124.2
  Neah Bay - 125.1 125.1
  Redmond - 121.35 134.9 135.35 128.15
  Rex-Parrett - 121.35
  Scappoose - 124.2 128.15
  Spokane - 123.95 119.225
  Stampede Pass - 134.95 134.95
  The Dalles - 135.45 119.65
  Wallula - 132.6
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Wenatchee - 126.1

Whidbey Island - 134.95 134.95 128.5 125.1 125.1 Yakima - 135.525 135.525 132.6 120.3 120.3 118.55

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

BOISE AFSS

ASHTON RCO 123.625 BLISS RCO 122.4

BOISE RCO 122.2 122.6

CASCADE RCO 122.35

CONNERS RCO 122.05

COEUR D'ALENE RCO 122.05

HAILEY RCO 122.4

IDAHO FALLS RCO 122.55

LEWISTON RCO 122.35

MALAD CITY RCO 122.65

MOUNTAIN HOME RCO 122.6

MULLAN PASS RCO 122.15

POCATELLO RCO 122.35

ROME RCO 122.65

SALMON RCO 122.55

SQAW BUTTE RCO 122.45 STANLEY RCO 122.6

TWIN FALLS RCO 122.25

CASPER AFSS

ANTELOPE GAP RCO 122.2

BIG PINEY RCO 122.3

BOYSEN RESERVOIR RCO 122.3

CASPER RCO 122.2 122.4

CHEROKEE RCO 122.4

CHEYENNE RCO 122.3

CODY RCO 122.3

CONVERSE RCO 121.975

CRAZY WOMAN RCO 122.025

DUNIOR RCO 122.6

FORT BRIDGER RCO 122.3

GILLETTE RCO 122.3

JACKSON RCO 122.05

LARAMIE RCO 122.6 MEDICINE BOW RCO 122.5

NEWCASTLE RCO 122.5

RAWLINS RCO 122.2

RIVERTON RCO 122.2

ROCK SPRINGS RCO 122.6

SHERIDAN RCO 122.5

WORLAND RCO 122.4

GREAT FALLS AFSS

BILLINGS 122.55

BOZEMAN RCO 122.5

BUTTE RCO 122.2 122.4

COPPERTOWN RCO 122.65

CUT BANK RCO 122.2

DILLON RCO 122.15

GLASGOW RCO 122.25 GLENDIVE RCO 122.55

GREAT FALLS RCO 122.6

HARLOWTON RCO 122.4

HAVRE RCO 123.65

HELENA RCO 122.55

JUDITH MOUNTAIN RCO 122.2

LAKESIDE RCO 122.5

LEWISTOWN RCO 122.35

LIVINGSTON RCO 122.2

MILES CITY RCO 122.2

MILLER PEAK RCO 122.45

SIDNEY RCO 123.65 TOWER HILL RCO 122.3

WOLF POINT RCO 122.45

YELLOWSTONE RCO 119.4

Mc MINNVILLE AFSS

ASTORIA RCO 122.3

AUGSPURGER RCO 122.3

BEAVER MOUNTAIN RCO 122.4

BURNS RCO 122.5

CAPE BLANCO RCO 122.4

ENTERPRISE RCO 122.5

EUGENE RCO 122.3

KIMBERLY RCO 122.6

KLAMATH FALLS RCO 122.6

LA GRANDE RCO 122.5

LAKEVIEW RCO 122.3

MC MINNVILLE RCO 122.45

MEDFORD RCO 122.65

NEWBERG RCO 122.45

NEWPORT RCO 122.5

NORTH BEND RCO 122.4

ONTARIO RCO 122.3

PENDLETON RCO 122.2 PORTLAND RCO 122.6

REDMOND RCO 122.5

REDMOND RCO 122.5 ROSEBURG RCO 122.55

SALEM RCO 122.6

SEXTON SUMMIT RCO 122.5

SUNRIVER RCO 122.3

WALLULA RCO 122.6

SEATTLE AFSS 122.5

MT CONSTITUTION RCO 122.3

OMAK RCO 122.2

PORT ANGELES RCO 122.6

PULLMAN RCO 122.6

SEATTLE RC0 122.5 123.65

SOUTHWEST WASHINGTON RCO 122.25 122.55

SPOKANE RCO 122.2 122.55 122.65

THE DALLES RCO 122.65

VANCOUVER RCO 122.35

WENATCHEE RCO 122.6

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BADGER MOUNTAIN RCO 122.3

BELLINGHAM RCO 122.15

BUCKHORN MTN RCO 122.2

ELLENSBURG RCO 122.2

EPHRATA RCO 122.2

HOQUIAM RCO 122.2

JUMP-OFF-JOE RCO 122.4

MOSES LAKE RCO 122.4

OCEAN SHORES RCO 122.4

PAINE RCO 122.55

TATOOSH RCO 122.25

WALLA WALLA RCO 122.3

YAKIMA RCO 122.5

FSD0

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office–Federal Aviation Administration.

IDAHO

3295 Elder Street, Suite 350 Airport Plaza Boise, ID 83705

Telephone: 208-334-1238

MONTANA

Helena Airport 2725 Skyway Drive Helena, MT 59601 Telephone: 406-449-5270 1-800-457-9917

OREGON

Portland Flight Standards District Office 3180 NW 229th Avenue Hillsboro, Oregon 97124 Telephone: 503–615–3200 FAX 503–615–3300

WASHINGTON

Seattle FSD0 1601 Lind Ave. S. W. Renton, WA 98057 Telephone: 425–227–2813

Spokane FSD0 Felts Field 6133 E. Rutter Avenue Spokane, WA 99212 Telephone: 509-532-2340

ROUTES PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
- 9. Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
- 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun		ime.
Mon thru	ri	ime.
Sat		ime.

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Low altitude IFR traffic 13000 feet and below		(010)
		1400-0700
	OLM V165 UBG	
Northbound	UBG V165 OLM	1400-0700
Low Altitude IFR traffic 9000 feet and below o	verflying the Seattle, WA Area:	
Southbound/Southwestbound	V165	1400-0700
Northbound	V165	1400-0700
Eastbound	V004 SEA V002	1400-0700
Low Altitude IFR traffic 10000 to 15000 overf	lying the Seattle, WA Area:	
Southbound	V165 V495	1400-0700
Southbound	V023 V165 DIGGN V495	1400-0700
Eastbound	V004 SEA V2	1400-0700
Low Altitude IFR traffic 10000 to 15000 overf	lying the Seattle, WA Area landing in PDX area:	
Southbound	V165 V495 SEA HELNS-STAR	1400-0700
Southbound	V023 V165 DIGGN V495 SEA HELNS-STAR	1400-0700
Low Altitude IFR traffic from the North termina	ting at McMinnville, OR, Aurora State, OR, or Hillsboro,	OR:
Southbound	V165 UBG	1400-0700

PREFERRED IFR ROUTES SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

Effective

Terminals	Route	Times (UTC)		
From the Eugene, OR Area: (props and turbop Northbound	rops, 170 and below) V481 CVO V495 UBG	4.400.0700		
Southbound	V448 OED	1400-0700 1400-0700		
Southbound	V440 0LD	1400-0700		
	HIGH ALTITUDE			
Terminals PORTLAND (PDX)	Route	Effective Times (UTC)		
Burbank (BUR)	J67 LIN J189 AVE FIM	1300-0600		
Chicago O'Hare (ORD)	J16 MCW JVL-STAR	0000-2359		
Detroit Metro-Wayne Co (DTW)	ODI J34 BAE MKG POLAR-STAR			
Houston (HOU)	(Turbojets) PNH MQP EUVR TEXNN-STAR PNH MQP RIICE-STAR			
Long Beach (LGB)	J67 LIN J189 AVE FIM	1300-0600		
Los Angeles (LAX)	J67 LIN J189 AVE FIM	1300-0600		
Ontario (ONT)	J67 LKV J5 EHF PMD	1300-0600		
Santa Ana (SNA) SEATTLE BOEING FLD (BFI)	J67 LIN J189 AVE FIM	1300-0600		
Burbank (BUR)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600		
Long Beach (LGB)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600		
Los Angeles (LAX)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600		
Ontario (ONT)	SEA J5 EHF ZIGGY-STAR	1300-0600		
Santa Ana (SNA)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600		
SEATTLE/TACOMA (SEA)	(DNAV aniv) COLUM AKWAY AKHOO LAIDE AK700			
Anchorage (ANC)	(RNAV only) SQUIM AKWAY AKHOG LAIRE AKZOO JOH			
Burbank (BUR)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE FIM	1300-0600		
Cleveland Metro Area (CLE) (CGF) (BKL)				
(LNN) (LPR)	BAE J34 GRR HIMEZ-STAR			
Detroit Metro-Wayne Co. (DTW)	J90 HLN J34 BAE MKG POLAR-STAR			
Houston (HOU)	(Turbojets) PNH MQP EUVR TEXNN-STAR			
Houston (IAH)	PNH MQP RIICE-STAR			
Kennedy (JFK)	J90 HLN J34 ODI J30 J90 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR			
Long Beach (LGB)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE	1300-0600		
Los Angeles (LAX)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE			
Newark (EWR)	FIM J90 ABR J70 GEP DLL J34 CRL J584 SLT FQM-STAR	1300-0600		
Ontario (ONT)	SUMMA-DP SUMMA J5 EHF PMD	1300-0600		
Santa Ana (SNA)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE			
FIM				
SPOKANE (GEG) Chicago O'Hare (ORD)	(El 240 and above, Turboiete) to join DPR 146			
Gilloago O naie (ORD)	(FL240 and above, Turbojets) to join DPR J16 MCW JVL-STAR	0000-2359		

O-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
•	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
-	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
07	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ–JAGWA JAGWA–AVENAL	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,
Ą3	SOMINIA-SIMICE	EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED,
	COMBE MEDICA	SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,
-		OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
000	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	UKM, RZU, EUS, TUL

240 Q-ROUTES

Route	Segment	DME
Q24	LAKE CHARLES-BATON	AEX, DAS, LCH, MCB, LFT, BTR
	ROUGE BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
026	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26 Q27	WALNUT RIDGE-DEVAC FORT SMITH-ZALDA	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
Q29	ESTEE-POCKET CITY HARES-MEMPHIS	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA MEM, ARG, LIT, JAN, ELD, SQS
4-0	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
	SIDAE-POCKET CITY	PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX	SQS, LIT, TXK
	JODOX–MARVELL MARVELL–TIIDE	SQS, LIT, ELD, MEM, ARG ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE NASHVILLE-SWAPP	BWG, MEM, VUZ, BNA, GQO BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
	MATIE-MEMPHIS MEMPHIS-SWAPP	LIT, ARG, MEM, ELD, SQS BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
036	CORKR-DRAKE RAZORBACK-TWITS	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
***	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
030	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT-INCIN INCIN-LAREY	DAS, LCH, SWB, IAH, LFK, HUB, AEX JAN, MCB, SWB, AEX
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
042	WINAP-MISLE KIRKSVILLE-STRUK	MEI, VUZ, JYU CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
V	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK,
		OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-MAALS MAALS-SUZIE	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE SWABE-ST PETERSBURG	PIE, ORL, OMN, SRQ, TAY LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
	CYPRESS	

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Route	Segment	DME
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
Q502	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,
		MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
Q504	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
		SAW, GRB, BRD
	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

HAR expansion airspace may pitch vertical pitch line, or at the fixes

Except as noted, flights entering at the airspace boundary, at the

west longitude to the ZHU southern boundary. 90 degrees west longitude, the 90 degrees south to the ZHU boundary. Then west to except between PMM and GSH, then boundary to the ZME/ZID boundary west longitude from the ZMP/ZAU following the ZME east boundary Vertical Pitch Line: 86 degrees No westbound traffic between PMM and GSH. ZNZ 787 ZDC ZNZ ZIMA ZOB E ZJX IN DEW ZID SSH SWT MIN Sovido Boydo W 98 W 06 GEP CESNA ZME S. isted on the following page. ZKC ZHD ZFW ZMP VOZ ZAB ZLC ZLA ZSE ZOA

NW, 17 DEC 2009 to 11 FEB 2010

HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque ABQ, GUP, HANOS or ZUN

Austin ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV

Boca Raton, FL TBIRD KPASA Q118 LENIE

or

TBIRD KPASA Q116 CEEYA or TBIRD KPASA O110 FEONA

or

TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY

Burbank includes GMN, MARKS

Santa Monica or and Van Nuys DAG LAS

or HEC EED or PMD BLH

Chicago Terminal Area IOW, PLL275065, MZV or BAE

Dallas/Fort Worth Terminal Area ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

ELD, SWB

or

Aircraft destined the Chicago terminal area

Except MDW

EAKER MIDEE BDF BRADFORD-STAR

Or

MLC J105 SGF BDF BRADFORD-STAR

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

CABET, WEEDS, OR BINKE

Fort Lauderdale (or)
Fort Lauderdale Executive

THNDR KPASA Q118 LENIE

THNDR KPASA Q116 CEEYA

or

THNDR KPASA Q110 FEONA

or

THNDR SMELZ Q106 GADAY

or

THNDR SMELZ Q106 BULZI

Houston Bush LIT, EMG, MLC, JCT

or

Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR

or

Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN

or

Aircraft joining J42 to the northeast, ELD Q32 J42

LIT, EMG, MLC, JCT, Houston Hobby

Aircraft joining J42 to the northeast, ELD Q32 J42

Jacksonville, FL

Kansas City Terminal Area TIFTO, CATTS or KENTN

GMN. RZS Los Angeles, includes Ontario or

DAG LAS or TRM EED

or TRM PKE

DOBNE, MOSBI, NICLE, TRALR or ZELOT Las Vegas

GMN SNS, EHF, LANDO Long Beach includes

Orange County

TRM PKE or

TRM EED

BNA, HAAWK, SALMS or SQS Memphis Miami Terminal Area WINCO KPASA Q118 LENIE

WINCO KPASA Q116 CEEYA

WINCO KPASA Q110 FEONA

WINCO SMELZ Q106 GADAY

WINCO SMELZ 0106 BULZI

Milwaukee GREAS

Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD

New Orleans Terminal Area AEX, MEI, SQS, KAPLN Orlando Terminal Area WEBBS BRUTS Q118 LENIE

> or WEBBS GULFR Q116 CEEYA

WEBBS BULZI Q106 GADAY

WEBBS FEONA

or

WEBBS BULZI

Palm Beach, FL TBIRD KPASA Q118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA Q110 FEONA

TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY

TRM JOTNU BLD Palm Springs

or

TRM EED TRM PKE

Phoenix CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK

Portland, OR PDT, TIMEE Salt Lake City HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI

or

TCH J56 CHE or TCH J173 EKR

Saint Louis VIH, MAP, MYERZ, MCM

or

HLV MCI

San Antonio Terminal Area FUZ, SJT, MQP, ABI

0

Aircraft North of LFK, LFK or Aircraft South of HUB, ELA

or

Aircraft South of LFK and North of HUB LCH

San Diego TRM EED

or

TRM PKE

TRM JOTNU BLD

San Francisco Bay Area GALLI, INSLO, HAROL JSICA
Oakland GALLI, INSLO, HAROL JSICA

San Jose GALLI or INSLO

Seattle BLUIT

Southwest Florida Airports JOCKS KPASA Q118 LENIE

(RSW/FMY)

--

JOCKS KPASA 0116 CEEYA

or JOCKS KPASA Q110 FEONA

or

JOCKS SMELZ Q106 GADAY

or

JOCKS SMELZ Q106 BULZI

Tampa Terminal Area FEONA, BULZI

or BRUTS 0118 LENIE

DKO 12 ÁTTO FEINIG

GULFR Q116 CEEYA

or BULZI Q106 GADAY

Catch Points for Airports Located <u>Outside</u> HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area

Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA

or

Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

MEM

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

Alliciait tili

or

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

BWG, BWG

UI

Aircraft through ZME airspace from ZFW airspace, MEM

Α

MEI HONIE (RNAV)-STAR

or

PATYN HONIE (RNAV)-STAR

^{*}MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Baltimore–Washington* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ

Boston* GEP, CRL, ECK, IIU, BNA or VUZ

Buffalo* GEP, CRL

Hartford Bradley* GEP, CRL

Canton-Akron* GIJ, VHP, GEP

Charlotte BNA, VUZ

Cincinnati Terminal Area BNA. PXV

DINA, PA

Aircraft north of SLC, JOT

/ 1111

Aircraft over or south of SLC, ENL

.

SLC or SFO departures, ENL, JOT

Cleveland Terminal Area* OBK

Detroit Terminal Area BAE MKG POLAR-STAR

or

VHP FWA MIZAR-STAR

Detroit Young VHP FWA

or

LAN SPRTN-STAR

Indianapolis Terminal Area BIB, SPI, JOT
Louisville ENL. MEM

Newark* GEP, VHP, FLM, IIU, BNA, VUZ

or

IOW GIJ J554 CRL J584 SLT FQM

New York Kennedy* GEP, VHP, FLM, IIU, BNA, VUZ

or

DBQ J94 PMM J70 LVZ LENDY-STAR

New York LaGuardia* GJJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area* GJJ, GEP, VHP, BAE, WHETT, BNA, VUZ

Pittsburgh Terminal Area* VHP, GIJ, BAE, GEP

Pontiac LFD, LAN, VHP, FWA, GEP

Providence JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

 Raleigh-Durham
 FLM, IIU, BNA, VUZ

 Toronto Terminal Area
 ECK, SVM, SSM, GEP

 Teterboro*
 GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

White Plains* GEP, VHP, CRL, FLM, IIU, BNA, VUZ

Willow Run* LAN, LFD, VHP, FWA, GEP

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

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HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area CURLY CURLY-STAR

or

ESPAN FRIHO-STAR

LAVAN LAVAN-STAR

FTI FRIHO-STAR

or

MIERA MIERA-STAR

Aircraft west of a north-south line at LFK, BLEWE Austin Terminal Area

Aircraft east of a north-south line at LFK,IDU

or

LLO

Boca Raton, FL CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

DEFUN 0112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway CVA MOTIF-STAR

PIA MOTIF-STAR

DBQ CVA MOTIF-STAR

LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR

TVC PULLMAN-STAR

FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR

GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR

Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area OATHE DANDD-STAR

HGO QUAIL-STAR

LOPEC-STAR

ALS LARKS-STAR

HBU POWDR-STAR

EKR TOMSN-STAR

CHE TOMSN-STAR

BFF LANDR-STAR

LBF SAYGE-STAR

HCT SAYGE-STAR

RSK LARKS-STAR

LAA QUAIL-STAR

GCK J154 RYLIE DANDD-STAR

OCS J154 ALPOE RAMMS-STAR

YANKI J114 SNY LANDR-STAR

Aircraft filed BIL or east, MBW RAMMS-STAR

CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR

Ft Lauderdale or Ft Lauderdale Executive

Aircraft through ZHU airspace remain south ZME and ZTL

airspace

SZW HEVVN 0104 PIE SWAGS (RNAV)-STAR

Houston Bush CRP. CVE. LLO. LUKIY. SAT

Aircraft south and east of LLA, LLA

MISLE Q40 AEX

Aircraft north and east of SJI, SJI

Aircraft east of PXV. PXV 031 DHART SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Houston Hobby CRP, ELLVR, SAT, SWB

Aircraft south and east of GIRLY, GIRLY

Aircraft north and east of SJI, SJI

BESOM Q38 ROKIT ROKIT-STAR

Aircraft east of PXV, PXV Q29 HARES SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Jacksonville **GADAY ZOOSS TAY**

Aircraft through ZHU airspace remain south of ZME and ZTL

ZOOSS TAY

250 HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

John Wavne-Orange County HEC. PGS. BLD

Aircraft south of TBC from ZAB airspace, HIPPI

Kansas City Terminal Area LMN BRAYMER-STAR

PWE ROBINSON-STAR

EMP JHAWK-STAR

Las Vegas DILCO, LIDAT, IGM

Aircraft over PGA or north of PGA KSINO

Aircraft south of PGA PGS LYNSY

Los Angeles Terminal Area Aircraft North of TBC, HEC, PGS

Aircraft South of TBC from ZAB airspace, HIPPI,

MESSI

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Miami Terminal Area

Aircraft through ZHU airspace remain south ZME and ZTL airspace

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Minneapolis Terminal Area Aircraft from north, west, south,

FAR GOPHER-STAR

or

RWF SKETR-STAR or ALO KASPR-STAR

BRD GOPHER-STAR

BAE EAU CLAIRE-STAR

or

FOD TWOLF-STAR

Memphis Terminal Area ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD

Naples, FL CEW DEFUN 0104 PLYER PIKKR (RNAV)-STAR

Aircraft through ZHU AIRSPACE remain south of ZME and ZTL

airspace

SZW HEVVN 0104 PLYER PIKKR (RNAV)-STAR

Nashville CCT, GHM, GUITR, TINGS, VOLLS New Orleans Terminal Area BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland II A

or

KATTS PAMMY

Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

Aircraft from north of ILC, JOPER PAMMY

KATTS PAMMY

Aircraft over or south of ILC, REANA KATTS PAMMY

Orlando Terminal Area GADAY Q108 CLAWZ LEESE-STAR

Aircraft through ZHU airspace remain south of ZME/ZTL

airspace

OTK LEESE-STAR

Palm Beach, FL CEW DEFUN 0112 INPIN GULLO (RNAV)-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW INPIN GULLO (RNAV)-STAR

Phoenix CORKR DRK

Aircraft from ZDV airspace,

GUP

Aircraft from ZAB airspace,

ZUN, MOHAK, SSO

VYLLA TUS

Phoenix Satellites FLG, SSO, MOHAK

VYLLA, TUS

Portland, OR Terminal Area ARNIT BONVL-STAR

LARNO BONVL-STAR

MOXEE MOXEE-STAR

St. Louis Terminal Area SGF TRAKE-STAR

BUM TRAKE-STAR ANX TRAKE-STAR

LMN IRK RIVRS-STAR RBS VANDALIA-STAR

Salt Lake City Terminal Area JNC J12 HELPR SPANE-STAR

EKR MTU SPANE-STAR or BCE DTA-TCH

or MLF DTA-TCH

BVL BONNEVILLE-STAR

or BYI BEARR-STAR

or

PIH BEARR-STAR

DBS BRIGHAM CITY-STAR

JAC BRIGHAM CITY-STAR

BPI BRIGHAM CITY-STAR

OCS BRIGHAM CITY-STAR

San Diego Terminal Area EED, LAX, GBN

Santa Ana HEC, PGS, BLD, HIPPI

San Antonio Terminal Area IDU, CSI, JCT, LLO, CRP, LRD

West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

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HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

San Francisco FMG GOLDEN GATE-STAR

MVA MODESTO-STAR

ENI GOLDEN GATE-STAR

OAL MODESTO-STAR

South of a line ILC to DVC,

REANA KATTS OAL MODESTO-STAR

San Jose FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENI GOLDEN GATE-STAR

South of a line ILC to DVC,

REANA KATTS KICHI CANDA EL NIDO-STAR

Seattle Terminal Area Aircraft From northeast, southeast, south,

TEMPL GLASR-STAR

SUNED CHINS-STAR

BTG OLMYPIA-STAR

Southwest Florida Airports CEW DEFUN Q104 SWABE JOSFF-STAR RSW and FMY Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW HEVVN Q104 SWABE JOSFF-STAR

Tampa Terminal Area CEW DEFUN Q104 HEVVN DARBS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW DARBS-STAR

Tucson DRK PXR

or

MOHAK GBN

VFR WAYPOINTS VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT VPAXI	COLLOCATED VFR CHECKPOINT	LOCATION N38°34.57'/W076°20.38'
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32′/W076°36.90′
VFOOF		N38 30.32 / W070 30.90
	BOSTON HELICOPTER CHART	
VPBAY		N42°16.17′/W070°49.48′
VPBLT		N42°19.67'/W070°53.40'
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′
VPGVL		N42°21.88′/W070°52.18′
VPHAM		N42°30.13′/W071°07.15′
VPPIK		N42°20.37′/W071°15.93′
VPQUA		N42°12.10′/W071°04.78′
VPQUB		N42°12.60′/W070°59.83′
VPSPF		N42°24.20′/W071°09.47′
VPTOB		N42°31.42′/W070°59.82′
VPWAN		N42°36.88′/W071°19.45′
	BOSTON TERMINAL AREA CHART	
VPCOH	Cohasset	N42°13.58′/W070°48.94′
VPCUT	Cuttyhunk Harbor	N41°25.50′/W070°55.03′
VPFRA	Framingham Shopping Center	N42°18.16′/W071°23.65′
VPHOL	Woods Hole	N41°31.06′/W070°40.60′
VPHUL	Hull	N42°18.20′/W070°55.30′
VPLPT	Nantucket Great Point	N41°23.41′/W070°02.78′
VPNED	Needham Towers	N42°18.51′/W071°14.64′
VPPEA	Peabody Shopping Center	N42°32.52′/W070°56.69′
VPROC	Rockingham Race Track	N42°46.29′/W071°13.57′
VPSCI	Scituate	N42°11.89′/W070°43.69′
VPTPT	Nantucket Third Point	N41°18.51′/W070°03.37′
VPTUC	Tuckernuck	N41°18.31′/W070°15.43′
VPWAK	Wakefield	N42°30.72′/W071°05.24′
VPWAN	Wang Towers	N42°36.88′/W071°19.45′
	CHARLOTTE SECTIONAL CHART	,
VPATO	CHARLOTTE SECTIONAL CHART	N24°27 27' (MO76°24 47'
VPATO		N34°37.37′/W076°31.47′ N34°57.00′/W077°16.50′
VPBFE		
VPBRA		N32°16.38′/W080°47.50′
		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPGHI		N35°15.30′/W075°31.25′
VPGIO		N35°32.50′/W076°37.33′
VPKJU		N35°26.58′/W076°10.22′
VPLMN		N34°55.43′/W077°46.42′
VPMAB	IOLE OF BALMO	N34°42.20′/W077°03.50′
VPNPO	ISLE OF PALMS	N32°47.78′/W079°46.45′
VPOKY		N35°06.53′/W075°59.17′
VPREP		N32°33.98′/W080°21.82′
VPRRS		N33°25.45′/W079°07.60′
VPUMO		N35°35.63′/W075°28.08′
VPWZO		N36°00.87′/W075°40.07′
VPZIE		N32°01.62′/W080°53.42′

CHICAGO SECTIONAL CHART

CHICAGU SECTIONAL CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCOH		N31°49.35′/W081°51.07′
nı	ENVER TERMINAL AREA CHART/FLYWA	V CHVDT
Di	INVERTICIONAL AREA ONARI/TETRA	
VPBEN		N39°44.28′/W104°26.00′
VPFTG	 	N39°44.35′/W104°32.75′
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′
HO	USTON TERMINAL AREA CHART/FLYW	AY CHART
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY		N29°46.25′/W095°09.24′
VPDTN		N29°46.59′/W095°22.01′
VPGLA		N30°08.32′/W095°06.62′
VPGLB		N30°07.80′/W094°55.70′
VPKTY		N29°47.05′/W095°44.92′
VPPLN		N30°08.80′/W095°50.42′
VPRSN		N29°30.00′/W095°41.00′
VPSND		N29°23.13′/W095°28.86′
VPSNT		N29°49.29′/W094°53.94′
VPTNE		N29°47.48′/W095°03.34′
VPTNW		N29°47.06′/W095°33.81′
VPTRK		N29°24.06′/W095°10.44′
	JACKSONVILLE SECTIONAL CHAR	T
VPAFI		N31°49.35′/W081°51.07′
VPAFY		N30°07.00′/W081°21.33′
VPBEC		N29°46.25′/W081°15.10′
VPCJA		N29°30.00′/W081°06.00′
VPCKY		N28°46.50′/W082°34.00′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDAR		N31°22.38′/W081°24.13′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEGV		N29°39.97′/W081°24.87′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHAA		N30°04.02′/W083°40.02′
VPHUC		N28°19.87′/W082°43.77′
VPIWA	MIDWAY	N31°48.33′/W081°25.85′
VPJMY		N29°26.92′/W081°18.27′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′
VPLJA VPMAI		N29°00.00′/W080°51.00′ N30°50.02′/W084°56.63′
VPTLH		N30°32.70′/W083°52.22′
VPXZY		N29°35.00′/W083°10.00′
VPYIW		N30°42.28′/W081°27.25′
VPZIE		N32°01.62′/W080°53.42′
	KANSAS CITY SECTIONAL CHAR	
VPAGO	MANONO UITI DEUTIUNAL UNAK	N37°50.33′/W090°29.03′
VPAGO VPBEK		N37°50.33′/W090°29.03′ N37°15.07′/W092°30.67′
VPDEN		N37°46.75′/W092°19.20′
VPENE		N37°44.75′/W091°55.78′
VPESS		N36°59.48′/W091°00.88′
VPFME		N37°41.00′/W092°38.33′
VPGXY		N37°15.50′/W091°40.17′
VPMBE		N37°11.08′/W090°27.92′
VPMKE		N37°24.47′/W092°40.00′
VPROV		N38°01.72′/W091°12.81′
VPUTT		N37°52.05′/W092°01.20′

VFR WAYPOINTS

	VER WAIFUINIS	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPWOC		N37°18.03′/W092°18.63′
VPWRO		N37°39.12′/W091°45.68′
VPXIZ		N37°26.60′/W092°05.42′
	KANSAS CITY TERMINAL ARE	
VPATN	ATCHISON	N39°33.62′/W095°07.65′
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32′
VPBSP	BONNER SPRINGS	N39°03.78′/W094°53.10′
VPCHB	CHOUTEAU BRIDGE	N39°08.77′/W094°32.03′
VPDSO VPESG	DE SOTO	N38°58.68′/W094°58.48′
VPESG VPGTB	EXCELSIOR SPRINGS GARRETSBURG	N39°20.68′/W094°13.77′ N39°40.92′/W094°41.45′
VPLAT	LATHROP WATER TANK	N39°32.87′/W094°20.00′
VPLEN	LENEXA	N38°57.77′/W094°43.68′
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°28.28′
VPMCL	MC LOUTH	N39°11.65′/W095°12.50′
VPNHA	NASHUA	N39°17.83′/W094°34.80′
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02′
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02′
VPSPK	SWOPE PARK	N39°00.47′/W094°31.93′
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22′
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12′
	KLAMATH FALLS SECTIONAL	CHART
VPORO	REALITATIO TALLO OLOTTONAL	N43°57.38′/W123°02.22′
VFORO		•
	LOS ANGELES HELICOPTER	CHART
VPANA		N33°44.43′/W117°50.03′
VPART	MAGNOLIA	N33°51.45′/W117°58.92′
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57′
VPBOB		N33°59.60′/W117°21.45′
VPCAR		N33°49.90′/W118°17.23′
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCOR		N33°52.90′/W117°32.95′
VPCRX		N34°01.40′/W117°44.88′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPDOW VPELA		N33°56.47′/W118°05.80′
VPETY		N34°00.98′/W118°10.35′ N33°38.70′/W117°44.12′
VPFCB		N34°02.03′/W118°01.63′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPGOL	OMANIB THANKSINE FEREN	N34°09.33′/W118°17.37′
VPIMP		N33°55.85′/W118°16.85′
VPKAT		N33°48.23′/W117°54.22′
VPKEL		N34°03.92′/W117°48.40′
VPLAC		N34°03.75′/W118°14.93′
VPLLU		N34°03.85′/W117°17.82′
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPMDR		N33°59.27′/W118°23.97′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPNUY		N34°09.63′/W118°28.18′
VPPCH		N33°28.07′/W117°40.32′
VPPKC		N34°03.32′/W118°12.83′
VPPOR		N34°00.10′/W117°50.12′
VPRRT		N33°59.37′/W118°16.83′
VPSEP VPSFR		N34°05.80′/W118°28.63′
VPSFR VPSTC	SATICOY BRIDGE	N34°17.45′/W118°28.07′ N34°16.62′/W119°08.34′
VPSTK	SATIOUT BRIDGE	N34°15.62 /W119°08.34° N34°13.97'/W118°24.60'
VI OIN		NOT 15.51 / WIIO 24.00

LOS ANGELES SECTIONAL CHART

EGO ANGLEEG GEOTTONAL GHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
	LOS ANGELES TERMINAL AREA CHAR	T/FLYWAY CHART
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′

VPCSU CSU CHANNEL ISLANDS N34°09.76′/W119°02.53′ VPGTY N34°04.84'/W118°28.66' GETTY CENTER VPLBP N33°56.05'/W116°59.63' BANNING PASS VPLCC CHAFFEY COLLEGE N34°08.87'/W117°34.33' VPLCP N34°18.07'/W117°27.68' CAION PASS VPLDL DISNEYI AND N33°48.72'/W117°55.13' **VPLDP** N33°27.62'/W117°42.87' DANA POINT **VPLDS** DODGER STADIUM N34°04.42'/W118°14.42' N33°52.38'/W118°06.08' VPI FX 91/605 INTERCHANGE N34°07.10′/W118°18.02′ VPLGP GRIFFITH PARK OBSERVATORY VPI HF 110/405 FWYS N33°51.42′/W118°17.10′ N33°39.32'/W118°00.25' VPLHP HUNTINGTON PIER **VPLKH** KING HARBOR N33°50.75'/W118°23.88' VPLLC L.A. COLISEUM N34°00.83'/W118°17.27' VPLLM LAKE MATHEWS N33°50.58'/W117°26.85' VPLMM MAGIC MOUNTAIN N34°26.20'/W118°36.28' VPLMS MILE SOUARE PARK N33°43.40'/W117°56.77' VPLPD PRADO DAM N33°53.40′/W117°38.48′ VPLPP PACIFIC PALISADES N34°02.13'/W118°32.15' VPLOM **OUEEN MARY** N33°45.17'/W118°11.37' VPLRB ROSE BOWL N34°09.67'/W118°10.05' **VPLRT** SANTA ANITA RACE TRACK N34°08.45'/W118°02.65' VPLSA N33°52.03'/W117°42.68' SANTA ANA CANYON VPLSB N34°07.72′/W117°57.30′ SANTA FE FLOOD BASIN VPLSC N33°52.97'/W117°53.13' STATE COLLEGE VPLSF SAN FERNANDO RESERVOIR N34°17.87'/W118°29.00' **VPLSP** SIGNAL PEAK N33°36.33'/W117°48.63' N33°53.07'/W118°21.13' **VPLSR** HAWTHORNE & 405 FREEWAY **VPLSS** SANTA SUSANA PASS N34°16.00'/W118°38.43' VPLTW TUJUNGA WASH & FOOTHILL N34°16.40′/W118°20.30′ VPLVT VINCENT THOMAS BRIDGE N33°44.97'/W118°16.32' **VPLWT** WATER TANK N34°10.82′/W118°46.27′ VPNEW NEWHALL PASS N34°20.18'/W118°30.72' VPSTC SATICOY BRIDGE N34°16.62′/W119°08.34′

MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPBOV		N27°57.00′/W080°46.75′
VPCLE		N26°27.07′/W082°00.88′
VPCTE		N26°09.28′/W081°20.70′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDUT		N27°37.70′/W082°09.10′
VPDZE		N27°19.00′/W080°44.17′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPFAH		N26°25.40′/W081°29.67′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHRO	011 E1E BE1011	N27°05.97′/W082°12.20′
VPHUC		N28°19.87′/W082°43.77′
VPIBR		N27°12.47′/W081°40.22′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPKOE	LANE I ARREN	N24°40.08′/W081°20.55′
VPLYY		N24°49.07′/W080°49.17′
VPMBO	GULFSTREAM PARK	N25°58.57′/W080°49.17′
		•
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI		N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
VPWMO		N27°03.00′/W080°35.00′
		•

NW, 17 DEC 2009 to 11 FEB 2010

MIAMI TERMINAL AREA CHART/FLYWAY CHART

	MIAMI TERMINAL AREA CHART/FI	LYWAY CHART
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPMBO	GULFSTREAM PARK	N25°58.57′W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI		N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
	NEW ORLEANS SECTIONAL	CHART
VPGPT		N30°25.95′/W089°05.62′
VPLIP	PHILLIPS INLET	N30°16.23′/W085°59.25′
VPMAI		N30°50.02′/W084°56.63′
VPMOB		N30°23.00′/W088°31.72′
VPRAM		N30°18.95′/W089°35.88′
VPRER		N30°13.87′/W085°20.67′
VPRIV		N30°54.85′/W087°57.82′
VPSAW		N30°49.65′/W089°07.42′
VPTHR		N30°19.93′/W087°08.50′
	NEW YORK HELICOPTER (CHART
VPJAY		N40°59.00′/W073°07.00′
VPLYD		N40°57.37′/W073°29.59′
VPROK		N40°52.70′/W073°44.24′
	PHOENIX TERMINAL AREA CHART/	FLYWAY CHART
VPALL	ALLENVILLE	N33°20.97′/W112°35.20′
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38′
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48′
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08′
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88′
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92′
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37′
VPCNL	CANAL	N33°33.23′/W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10′
VPFTN	FOUNTAIN HILLS	N33°36.12′/W111°42.72′
VPGLX	GILA CROSSING	N33°16.55′/W112°10.08′
VPGPP	GLENDALE POWER PLANT	N33°33.27′/W112°13.00′
VPMAR	MARICOPA	N33°03.42′/W112°02.88′
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58′
VPNRV	NEW RIVER	N33°55.08′/W112°08.45′
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83′
VPPIR	PIR	N33°22.52′/W112°18.90′
VPQTR	QUINTERO GOLF COURSE	N33°49.53′/W112°23.58′
VPRVC	RIO VERDE COMMUNITY	N33°44.37′/W111°39.62′
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12′
VPSQP	SQUAW PEAK	N33°32.83′/W112°01.27′
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50′/W111°41.37′
VPSTN	SANTAN MOUNTAINS	N33°09.23′/W111°40.92′
VPSTT VPZZZ	SOUTH TEST TRACK	N32°56.25′/W111°59.67′ N33°20.18′/W111°26.53′
** ===	ST LOUIS TERMINAL AREA CHART/	
VPAGN	TV ANTENNA	N38°32.08′/W090°22.42′
VPBPE	HOLIDAY OLIOSES	N38°23.80′/W090°20.38′
VPCJY	HOLIDAY SHORES	N38°55.00′/W089°56.00′
VPCOJ	WINFIELD DAM	N39°00.28′/W090°41.23′
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18′/W090°16.47′
VPEAZ	BUSCH STADIUM	N38°37.43′/W090°11.55′
VPEDZ	WATER TANKS	N38°45.30′/W090°34.87′
VPEGR VPEOX	GAS TANKS ST PETERS	N38°35.80′/W090°19.32′ N38°47.17′/W090°39.25′
VPEUX	SI PEIERS	N38-47.17 / W090-39.25

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00′/W090°43.00′
VPFFY		N38°55.37′/W090°17.30′
VPGPF		N38°35.60′/W090°26.92′
VPGVI		N38°32.30′/W090°27.80′
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88′/W090°10.42′
VPIBO	WATERLOO	N38°20.00′/W090°09.00′
VPJMU	HORSESHOE LAKE	N38°41.00′/W090°05.00′
VPKNY	PACIFIC	N38°29.00′/W090°44.00′
VPLES	ST CHARLES	N38°47.00′/W090°30.00′
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50′/W090°11.00′
VPNSY	WOOD RIVER REFINERIES	N38°50.00′/W090°05.00′
VPNZY	WENTZVILLE	N38°48.83′/W090°50.98′
VPRAZ	JERSEYVILLE	N39°07.00′/W090°20.00′
VPRMO	FOREST PARK	N38°38.00′/W090°17.00′
VPWKO	COLUMBIA	N38°27.00′/W090°12.00′
VPXXI	MILLSTADT	N38°27.50′/W090°05.68′
VPYID	MOSENTHEIN ISLAND	N38°43.00′/W090°12.25′

SALT LAKE CITY HELICOPTER CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08′/W111°53.57′
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67′/W112°02.47′
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88′/W111°53.62′
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPWBR	WEBER CANYON	N41°08.17′/W111°54.83′
VPWBT		N40°38.00′/W112°03.33′

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VIII - III - VIII I - III - II		
VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28′/W112°05.92′
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30′/W111°53.43′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73′/W111°50.28′
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00′/W112°03.33′
VPZ00	HOGLE ZOO	N40°45.00′/W111°48.95′

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62′/W117°42.87′
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPOCN		N33°14.15′/W117°26.63′
VPSBC	BARONA CASINO	N32°56.25′/W116°52.60′
VPSBL		N33°05.18′/W117°18.55′
VPSBM	BLACK MOUNTAIN	N32°58.87′/W117°07.00′
VPSCF		N32°48.55′/W117°09.17′
VPSCM	COWLES MOUNTAIN	N32°48.72′/W117°01.97′
VPSCP	CRYSTAL PIER	N32°47.77′/W117°15.42′
VPSCR		N32°39.37′/W117°07.30′
VPSFB	IRON MOUNTAIN	N32°58.25′/W116°57.33′
VPSLJ	LAKE JENNINGS	N32°51.53′/W116°53.28′
VPSMB		N32°45.57′/W117°12.22′
VPSMP		N33°22.70′/W117°36.75′
VPSMS	MOUNT SOLEDAD	N32°50.40′/W117°15.10′
VPSMV		N32°45.75′/W117°09.80′
VPSMW	MOUNT WOODSON	N33°00.52′/W116°58.23′
VPSOP	OTAY MESA PRISON	N32°35.82′/W116°55.28′
VPSOT	LOWER OTAY LAKE	N32°37.73′/W116°55.38′
VPSPL	SOUTH POINT LOMA	N32°39.90′/W117°14.55′
VPSPP	POWER PLANT	N33°08.25′/W117°20.23′
VPSQS	QUALCOMM STADIUM	N32°46.98′/W117°07.23′
VPSRT	DEL MAR RACE TRACK	N32°58.58′/W117°15.95′
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78′/W116°56.18′
VPSSV	SAN VICENTE ISLAND	N32°55.53′/W116°55.00′
VPSTP	TORREY PINES GOLF COURSE	N32°54.17′/W117°14.68′
VPSVA		N33°11.48′/W117°16.38′

SAN FRANCISCO SECTIONAL CHART

VPKBG KINGSBURY GRADE N38°58.75′/W119°53.20′

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35′/W121°35.42′
VPANT	ANTIOCH BRIDGE	N38°01.45′/W121°45.02′
VPBBR	BENICIA BRIDGE	N38°02.50′/W122°07.45′
VPCAL	CALAVERAS RESERVOIR	N37°28.16′/W121°48.93′
VPCBT	LAKE CHABOT	N37°43.68′/W122°06.94′
VPCOY	COYOTE HILLS	N37°32.50′/W122°05.06′
VPCQZ	CARQUINEZ BRIDGE	N38°03.66′/W122°13.52′
VPCRL		N37°11.00′/W121°41.06′
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56′/W122°21.10′

VFR WAYPOINTS

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′
VPDLR		N37°07.00′/W121°47.06′
VPDUB	DUBLIN	N37°42.06′/W121°55.36′
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′
VPGIL	GILROY	N37°01.37′/W121°33.99′
VPHHH	HAMILTON	N38°03.58'/W122°30.66'
VPKGO	KGO	N37°31.58′/W122°06.10′
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′
VPNUM	NUMMI PLANT	N37°29.56'/W121°56.58'
VPPAC		N37°38.00′/W122°32.07′
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′
VPSAR	SARATOGA	N37°15.26′/W122°02.33′
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′
VPUTC	U.T.C.	N37°13.93′/W121°41.35′
VPWAL	WALNUT CREEK	N37°53.78'/W122°04.30'
VPWAM		N37°30.28′/W122°10.00′
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′

TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHUC		N28°19.87′/W082°43.77′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′

WASHINGTON SECTIONAL CHART

	WHOM OLD HOME OWN	
VPACE		N38°07.82′/W076°48.75′
VPAXI		N38°34.57′/W076°20.38′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPWZO		N36°00.87′/W075°40.07′

VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

IDAHO

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Boise	113.3/BOI	A/5000	090	6.2	Over dam outlet S end Lucky Peak Reservoir
Boise (Boise Air Terminal–Gowen Field)	113.3/B0I	G	275	1.0	On twy C adjacent to the intersection of Twy B at apch end Rwy 28L.
Coeur D'AleneIdaho Falls (Idaho Falls (Idaho Falls Rgnl)	108.8/COE 109.0/IDA	A/4000 G	011 208	9.0	Over amusement park. At intersection of Twys A and A3.
Nez Perce (Lewiston-Nez Perce County) Pocatello (Pocatello Rgnl)	108.2/MQG 112.6/PIH	A/3000 A/5800	247 034	6.2 8.7	Over tetrahedron on arpt. Over radio antenna with white storage tanks at base.
Fld)	115.8/TWF	G	065	0.8	On runup area at apch end Rwy 25.

VOR TEST FACILITIES (VOT)

Facility Name Type VOT	
(Airport Name) Freq. Facility	Remarks

Boise 116.7

MONTANA

RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Billings	114.5/BIL	A/5000	199	10.5	Over refinery at Laurel.
Bozeman (Gallatin Fld)	112.4/BZN	G	272	0.5	Twy at apch end Rwy 12.
	112.4/BZN	G	137	1.0	On runup as at apch end Rwy 30.
Coppertown (Bert Mooney)	111.6/CPN	A/6600	098	11.5	Over intersection of Rwys 11–29 and 15–33.
Dillon	113.0/DLN	A/7000	245	5.0	Over letter 'B' on bluff.
Great Falls (Great Falls Intl)	115.1/GTF	G	030	2.3	On Twy A between A5 and A6.
	115.1/GTF	G	030	2.9	At intersection of Twy A and A3.
Havre	111.8/HVR	A/4000	278	8.0	Over S end of dam.
Helena (Helena Rgnl)	117.7/HLN	G	238	0.7	On Twy E on South side of Rwy 27.
Kalispell (Glacier Park Intl)	108 / /FCA	A //1000	316	6.4	Over anch and Rwy 30

		Type Check Pt.	Azimuth from	Dist.	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Lewistown (Lewistown Muni)	112.0/LWT	A/5200	075	5.6	Over apch end Rwy 07.
Livingston	116.1/LVM	A/6500	237	5.5	Over northern most radio twr NE of city.
Miles City (Frank Wiley Field)	112.1/MLS	G	036	4.2	On twy leading to Rwy 30.
Missoula (Missoula Intl)	112.8/MSO	G	344	0.6	Terminal ramp east of Twy
					D

OREGON VOR RECEIVER CHECKPOINTS

		Type Check Pt. Gnd.	Azimuth from Fac.	Dist. from Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Astoria (Astoria Regional)	114.0/AST	G	153	.5	East edge of ramp in front of large hangar.
Baker	115.3/BKE	A/6000	136	6.7	Over microwave tower on bluff.
Corvallis (Corvallis Muni)	115.4/CVO	G	049	0.5	On S edge of terminal ramp.
Eugene (Mahlon Sweet Field)	112.9/EUG	G	071	0.5	On ramp immediately W of tower.
Klamath Falls (Klamath Falls)	115.9/LMT	G	298	1.0	On ramp N of Twy E.
North Bend (North Bend Muni)	112.1/OTH	G	255	3.5	On circle at intersection twys to Rwys 13–31 and 04–22.
Pendleton (Eastern Oregon Rgnl At Pendleton)	114.7/PDT	G	073	3.9	On twy B.
Rogue Valley (Rogue Valley Intl)	113.6/0ED	A/3000	213	4.8	Over radio tower.
Roseburg (Roseburg Rgnl)	108.2/RBG	A/2500	337	3.0	Over S end of Rwy 16-34.
Wildhorse	113.8/ILR	A/6500	225	6.0	Over smoke stack.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Portland Intl	111.0	G	
Portland Hillsboro	115.2	G	
Rogue Valley Intl–Medford	117.2	G	Unusable on Twy A–6, hangar area W of Twy
			A-6 and Twy A NW of

WASHINGTON VOR RECEIVER CHECKPOINTS

Twy C.

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Ellensburg (Bowers Field)	117.9/ELN 112.6/EPH	A/2300 A/2300	255 202	3.5 5.8	Over W end of Rwy 07–25. Over intersection of Rwys 02–20 and 11–29.
Hoquiam (Bowerman)	117.7/HQM	A/1100	062	8.4	Over centerline on apch end Rwy 06.
Whatcom (Bellingham Intl)	113.0/HUH	A/1700	162	5.4	Over Nooksack River/Interstate 5 Bridge.

Remarks

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Moses Lake (Grant County Intl)	115.0/MWH	G	155	1.4	On runup area Rwy 32R.
	115.0/MWH	G	194	1.2	On runup area Rwy 04.
	115.0/MWH	G	313	1.0	On runup area Rwy 14L.
Olympia (Olympia Rgnl)	113.4/0LM	G	350	0.3	On E runup area Rwy 17.
Paine (Snohomish Co (Paine Fld))	110.6/PAE	G	173	0.8	Intersection of Rwy 11 and Twy H.
				1.1	On Twy A-7.
Pasco (Tri-Cities)	108.4/PSC	G	098		Twy Echo at Rwy 30 run-up area.
Seattle	116.8/SEA	A/2000	197	27.0	Over Nisqually River/Interstate 5 bridge.
Seattle	116.8/SEA	A/2500	308	19.5	Over NW end of bridge and Hwy 305.
Seattle (Crest Airpark)	116.8/SEA	A/2000	107	10.3	Over centerline on apch end Rwy 33.
Tatoosh (Sekiu)	112.2/TOU	A/2500	077	12.4	Over AER 08.
Walla Walla (Martin Field)	116.4/ALW	A/1500	225	5.6	Over largest hangar.
Walla Walla (Walla Walla Rgnl)	116.4/ALW	G	035	0.5	At the intersection of Twys A and C.
Wenatchee (Pangborn Mem)	111.0/EAT	G	105	0.6	On Twy at apch end of Rwy 30.
Yakima	116.0/YKM	A/3500	210	4.1	Over single tower on ridge line.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility
Seattle (Boeing Field/King County Intl)	108.6	G
Seattle (Seattle Tacoma Intl)	117.5	G
Spokane (Felts Field)	114.0	G
Spokane Intl	109.6	G

WYOMING

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freg/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
radinty Name (Alpe Name)	ricq/ident	NB/NEI	Mug	14.141.	oneorpoint Bescription
Boysen Reservoir	117.8/BOY 115.4/JAC	A/6500 G	180 174	25 0.5	Over Riverton VOR. On Twy A, approximately 1,000' S of AER 19.
Muddy Mountain (Casper/Natrona Co Intl)	116.2/DDY	A/6400	204	13.4	Over intersection Rwys 03–21, 08–26 and 12–30.
Newcastle (Mondell Fld)	108.2 ECS	A/5500	116	4.9	Over radio towers with strobe lights.
Rawlins (Rawlins Muni)	109.4/RWL	A/7500	093	5.5	Bridge over railroad track east of refinery.
Rock Springs (Rock Springs–Sweetwater	109.4/RWL	G	050	0.8	Runup area Rwy 22.
County)	116.0/0CS	G	270	2.3	Intersection twy to Rwy 09–27.
Sheridan (Sheridan County)	115.3/SHR	A/5000	129	5.0	Over centerline approach end Rwy 14.

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	IDAHO		
Burley	13 NM: 035° Burley	15,000	Daily SR-SS.
(c) Caldwell Industrial Arpt		17,500	5 NM radius. ¹ /2 hour before SR-1 hour after SS.
(c) Star Skydiving Center	17 NM; 289° Boise	16,000	5NM radius. SR-2 hrs after SS daily.
	MONTANA		
Bozeman Gallatin Fld Arpt	1 NM; 038° Bozeman	15,000	2 NM radius. SR-SS daily.
(c) Butler Creek	19 NM; 296° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
Dornblaser Fld	5.2 NM; 120° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
(c) Grant Creek	1.5 NM; 053° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
(c) Helena, Ft Harrison	6 NM; 265° Helena	12,000	1 NM radius. Wed-Sun SR-SS.
Kalispell	6 NM; 227° Kalispell	14,000	1 NM radius. 0900-SS daily.
(c) Kalispell, Carson Fld Arpt	28 NM; 238° Kalispell	14,000	2 NM radius. 0800-SS daily.
Kalispell, City Arpt	6 NM; 230° Kalispell	14,000 AGL	2 NM radius. 0800-SS daily.
(c) Laurel Muni Arpt	9 NM; 208° Billings	14,500	2 NM radius. Daily SR-SS.
Livingston, MIssion Fld	1 NM; 010° Livingston	14,500	2 NM radius. Daily SR-SS.
(c) Missoula Intl Arpt	1.4 NM; 315° Missoula	1,500 AGL	0.5 NM radius. May–Sep daily SR–SS, Oct–Apr occasional use.
Nine Mile R.S	17 NM; 289° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
(c) Raser Ranch	2 NM; 357° Missoula	3,000 AGL	0.5 NM radius Apr-Oct occasional use.
Roundup Arpt	40 NM; 351° Billings	14,500	Weekends SR-SS.
(c) Six Mile	15 NM; 300° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
(c) Stevensville Arpt	25 NM; 162° Missoula	14,000	1 NM radius. Wed and weekends SR-SS.
Stoney Creek	17 NM; 296° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
Three Forks Arpt	18 NM; 275° Bozeman	14,500	2 NM radius. Daily SR-SS.
University Campus	5 NM; 108° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
West Yellowstone, Yellowstone Arpt	60 NM; 034° DuBois	1,500 AGL	June-Sep.
	OREGON		
(c) Albany, Northwest Parachute Club	18 NM; 032° Corvallis	13,000	2 NM radius. SR-1 hr after SS Wed-Sun. Occasional hours Mon-Tue.
(c) Creswell, Hobby Fld	15 NM; 120° Eugene	15,000	5 NM radius. SR-SS daily.
(c) Estacada, Beaver Oaks Arpt	25 NM; 076° Newberg	13,000 AGL	1.5 NM radius. 0800-2300 Daily.
(c) Hermiston Muni Arpt	16 NM; 280° Pendleton	15,000	2 NM radius. SR-SS weekends. Occasional hours weekdays.
(c) Medford, Beagle Sky Ranch Arpt	5 NM; 350° Rogue Valley	14,000	Daily SR-2200.
(c) Mollala, Sky Dive Oregon Arpt	19 NM; 110° Newberg	14,500	5 NM radius. 0800-2200, Daily. Portland Intl Tower 118.1
(c) Redmond, Cline Falls Air Park Arpt	3 NM; 010° Deschutes	13,000	3 NM radius. 0800-2100.

PARACHUTE JUMPING AREAS

	DISTANCE AND RADIAL FROM	MAXIMUM		
LOCATION	NEAREST VOR/VORTAC	ALTITUDE	REMARKS	
	WASHINGTON			
(c) Coupeville NOLF	5 NM; 110° Penn Cove	12,500 AGL	2 NM radius. Occasional use.	
Fort Lewis, Abrams Drop Zone	7.5 NM; 200° McChord	10,000	1 NM radius. Occasional use.	
Fort Lewis, Anzio Drop Zone	9 NM; 160° McChord	10,000	0.3 NM radius. Occasional use.	
Fort Lewis, Dakto Drop Zone	7.5 NM; 175° McChord	10,000	0.3 NM radius. Occasional use.	
Fort Lewis, Darby Drop Zone	8.5 NM; 097° Olympia	10,000	0.5 NM radius. Occasional use.	
Fort Lewis, El Guettar Drop Zone	7.5 NM; 092° Olympia	10,000	0.3 NM radius. Occasional use.	
Fort Lewis, Gray AAF Drop Zone	6 NM; 210° McChord	10,000	1 NM radius. Occasional use.	
Fort Lewis, Marion Drop Zone	11 NM; 190° McChord	10,000	1 NM radius. Occasional use.	
Fort Lewis, Merrill Drop Zone	9 NM; 092° Olympia	10,000	0.5 NM radius. Occasional use.	
Fort Lewis, Mytkina Drop Zone	10 NM; 065° Olympia	10,000	1 NM radius. Occsional use.	
Fort Lewis, Point Salinas Drop Zone	7.5 NM; 201° McChord	10,000	1 NM radius. Occasional use.	
Fort Lewis, Pointe De Hoc Drop Zone	11.5 NM; 192° McChord	10,000	0.25 NM radius. Occasional use.	
Fort lewis, Rogers Drop Zone	7 NM; 155° McChord	10,000	0.5 NM radius. Occasional use.	
Fort Lewis, Solo Drop Zone	6.5 NM; 245° McChord	10,000	1 NM radius. Occasional use.	1
Kennewick, Vista Field	5.1 NM; 217° Pasco	14,500	1 NM radius. SR-SS weekends, 1700-SS weekdays, Apr-Nov.	
(c) Larson Drop Zone	17 NM; 217° Moses Lake	3,000	Continuous. Personnel and hvy equip. Grant Co Intl Tower 126.4	
Monroe, Firstair Fld	14 NM; 091° Paine	12,500	0.5 mi radius. Daily SR-SS.	
(c) Richland Arpt(c) Ritzville, West Plains Skydiving	8 NM; 270° Pasco	13,000	2 NM radius. Continuous.	
Drop Zone	36.4 NM; 207° Spokane	15,000	2 NM radius. SR-SS weekends, 1700-SS weekdays. Heavy use Apr-Nov.	
(c) Shelton, Sanderson Fld Arpt	19 NM; 309° Olympia	14,000	2 NM radius. Daily 0800-2300.	
(c) Snohomish, Harvey Fld	7 NM; 078° Paine	15,000	2 NM radius. Continuous.	
(c) Snohomish, Harvey Fld	8 NM; 075° Paine	15,000	1 NM radius. Continuous.	
(c) Spokane, Hayford Drop Zone	12 NM; 340° Spokane	10,000	0.5 NM radius. Occasional use.	
(c) Tacoma, McChord AFB	28 NM, 181° Seattle	15,000	Weekends and occasional nights.	
(c) Tekoa, Willard Fld	31 NM; 110° Spokane	12,500	1 NM radius. Daily.	
(c) Toledo, Ed Carlson Mem Fld–South				
Lewis Co	30 NM; 150° Olympia	12,500	5 NM radius. Continuous.	

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

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BILLINGS SECTIONAL
                                     78th Edition. 27 Aug 2009
OBSTRUCTIONS
27 Aug 2009 No Major Changes.
22 Oct 2009 Add obst 2409'MSL (310'AGL)UC, 46°33'37"N, 101°12'48"W.
Add obst 1981'MSL (295'AGL)UC, 46°23'06"N, 100°37'17"W.
Add obst 2361'MSL (260'AGL)UC, 47°34'40"N, 100°36'13"W.
Add obst 2237'MSL (260'AGL)UC, 47°24'38"N, 100°35'22"W.
Add obst 2437'MSL (260'AGL)UC, 46°31'55"N, 101°33'11"W.
17 Dec 2009 Add obst 2721'MSL(340'AGL), 48°18'42"N, 102°39'44"W.
AIRPORTS
27 Aug 2009 No Major Changes.
22 Oct 2009 Delete MORGAN arpt, 49°00′00″N, 107°49′32″W.
Delete DORBRINSKI arpt. 47°53′52″N. 101°51′17″W.
Delete LOHSE arpt. 48°34'43"N. 103°27'59"W.
BELLE CREEK arpt abandoned, 45°07'30"N, 105°05'32"W.
17 Dec 2009 Change RP 12 to RP 13 at BLACK HILL-CLYDE ICE arpt, 44°28′46″N, 103°47′02″W. Change CTAF 122.8 to 122.9 at SOUTH BIG HORN CO arpt, 44°31′01″N, 108°04′58″W.
Delete GRENORA CENTENNIAL arpt, 48°37'32"N, 103°55'48"W.
NAVAIDs
27 Aug 2009 No Major Changes.
22 Oct 2009 Delete PARSHALL NDB, 47°56′10″N, 102°08′14″W.
17 Dec 2009 No Major Changes.
AIRSPACE
27 Aug 2009 No Major Changes.
22 Oct 2009 Add PLENTYWOOD, MT Class E: That airspace extending upward from 700 feet above the
surface within a 6.8-mile radius of Plentywood Sher-Wood Airport; and that airspace extending upward
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from 1,200 feet above the surface of the earth bounded by a line beginning at $49^{\circ}00'00''N, 105^{\circ}02'00''W;$ to $49^{\circ}00'00''N, 104^{\circ}02'00''W;$ to $48^{\circ}32'35''N, 104^{\circ}02'00''W;$ to $48^{\circ}27'00''N,$

104°11′12″W; to 48°40′00″N, 105°02′00″W; thence to the point of origin.

17 Dec 2009 Revise TIOGA, ND. Class E: That airspace extending upward from 700 feet above the surface within a 6.7-mile radius of Tioga Municipal Airport and within 4 miles either side of the 133° bearing from the Tioga Municipal Airport extending from the 6.7-mile radius to 10.2 miles southeast of the airport; and that airspace extending upward from 1,200 feet above the surface bounded on the north by latitude 49°00'00"N, on the east by the 47-mile radius of Minot AFB, on the south by V-430, on the southwest by the 21.8-mile radius of the Williston VORTAC, and on the west by the North Dakota/Montana state boundary.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

CF-16 WORLD AERONAUTICAL CHART 38th Edition, 15 Jan 2009

OBSTRUCTIONS

12 Mar 2009 - 17 Dec 2009 No Major Changes.

12 Mar 2009 - 17 Dec 2009 No Major Changes.

12 Mar 2009 Change ROME VORTAC freq from 122.5 to 112.5, 42°35'26"N, 117°52'05"W. 7 May 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

12 Mar 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

12 Mar 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

12 Mar 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

12 Mar 2009 - 17 Dec 2009 No Major Changes.

CHEYENNE SECTIONAL 80th Edition. 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 Add windmill farm. 6365'UC is highest MSL, 43°04'40"N, 105°50'43"W.

Add obst 6988'MSL (407'AGL)UC, 41°0823"N, 104°59'52"W.

22 Oct 2009 Add obst 7523'MSL (263'AGL)UĆ, 41°3915"N, 106°04'16"W. Add obst 7508'MSL (391'AGL)UC, 41°4022"N, 105°59'52"W.

Add obst 5157'MSL (258'AGL)UC, 42°4104"N, 103°55'53"W.

17 Dec 2009 Add obst 6584'MSL (363'AGL)UC, 41°10'42"N, 104°53'05"W.

Add obst 5047'MSL (350'AGL)UC, 41°38'30"N, 104°08'23"W. Add obst 5078'MSL (341'AGL)UC, 43°43'57"N, 105°21'49"W. Add obst 5208'MSL (305'AGL)UC, 43°24'53"N, 106°15'06"W.

Add obst 7127'MSL (262'AGL)UC, 41°57'30"N, 106°26'20"W.

27 Aug 2009 – 22 Oct 2009 No Major Changes. 17 Dec 2009 Change RP 12 to RP 13 at BLACK HILLS-CLYDE ICE arpt, 44°28′52″N, 103°47′09″W. Change CTAF 122.8 to 122.9 at SOUTH BIG HORN CO arpt, 44°31′00″N, 108°04′58″W.

27 Aug 2009 Delete ANTELOPE NDB, 41°36′15″N, 109°00′06″W.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

27 Aug 2009 Add RUSHVILLE, NE Class E: That airspace extending upward from 700 feet above the surface within a 7.3-mile radius of Modisett airport.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

GREAT FALLS SECTIONAL 77th Edition, 2 Jul 2009

OBSTRUCTIONS

2 Jul 2009 No Major Changes.

27 Aug 2009 Add obst 4190'MSL (300'AGL)UC, 48°32'20"N, 112°14'12"W.

Add windmill farm 4208'UC is highest MSL, 48°32'01"N, 112°08'37"W.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRPORTS

2 Jul 2009 No Major Changes.

27 Aug 2009 Delete COTTONTAIL arpt, 46°07′56″N, 110°02′50″W.

Delete FRAMPTON arpt, 47°58'43"N, 115°46'05"W.

Change MISSOULA INTL ATCT freq from 387.1 to 377.175, 46°54′59"N, 114°05′26"W.

22 Oct 2009 No Major Changes.

17 Dec 2009 Change CTAF 122.8 to 122.9 at FAIRFIELD arpt, 47°37'45"N, 111°58'48"W.

NAVAIDs

2 Jul 2009 No Major Changes.

27 Aug 2009 Add LEENY NDB, freq 347, ident (LEN), class MHW, 47°44′34″N, 116°57′40″W. **22** Oct 2009 – **17** Dec 2009 No Major Changes.

AIRSPACE

2 Jul 2009 -22 Oct 2009 No Major Changes.

17 Dec 2009 Add RONAN, MT Class E: That airspace extending upward from 700 feet above the surface within a 8.4-mile radius of Ronan Airport.

SPECIAL USE AIRSPACE

2 Jul 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 - 17 Dec 2009 No Major Changes.

KLAMATH FALLS SECTIONAL 81st Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

17 Dec 2009 Add obst 721'MSL (211'AGL), 43°31'58"N, 124°12'18"W.

AIRPORTS

22 Oct 2009 Delete RED & WHITE arpt, 43°07'09"N, 121°02'41"W.

Delete UNITY arpt, 44°27′05″N, 118°11′12″W.

17 Dec 2009 Delete CUBEHOLE arpt, 44°21′52"N, 122°57′30"W.

Delete WILSON arpt, 44°12'44"N, 120°31'26"W. Delete LAWEN arpt, 43°28'46"N, 118°49'51"W.

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NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 Add NORTH BEND, OR Class D: That airspace extending upward from the surface to and including 2500 feet MSL within a 4.2-mile radius of the Southwest Oregon Regional Airport. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SALT LAKE CITY HELICOPTER ROUTE CHART 3rd Edition, 26 Oct 2006

OBSTRUCTIONS

23 Nov 2006 - 17 Dec 2009 No Major Changes.

23 Nov 2006 - 10 Apr 2008 No Major Changes.

5 Jun 2008 Delete PAYNE arpt, 41°05′54″N, 112°06′56″W. Delete WARD heli, 40°35′59″N, 111°48′03″W. **31 Jul 2008 – 20 Nov 2008** No Major Changes. 20 Nov 2008 Delete CHANNEL 4 heli, 40°43′57″N, 111°57′20″W.

15 Jan 2009 - 17 Dec 2009 No Major Changes.

23 Nov 2006 - 17 Dec 2009 No Major Changes.

23 Nov 2006 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

23 Nov 2006 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

23 Nov 2006 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

23 Nov 2006 - 17 Dec 2009 No Major Changes.

SALT LAKE CITY SECTIONAL 82nd Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

17 Dec 2009 Change obst from 6143'MSL (302'AGL) to 6214'MSL (345'AGL), 42°51'46"N, 112°31′06"W.

AIRPORTS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 No Major Changes.

17 Dec 2009 Add airway V626 from MYTON VOR/DME, (MTU)250° to FAIRFIELD VOTAC, (FFU) 110°.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SALT LAKE CITY TERMINAL AREA CHART 41st Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SEATTLE SECTIONAL 78th Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

17 Dec 2009 No Major Changes.

NAVAIDs

17 Dec 2009 No Major Changes.

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

SEATTLE TERMINAL AREA CHART 73rd Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDs 17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

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CHART & DANEL

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

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FACILITY NAME

FACILITY NAME	CHART & PANEL
Frankfort, IL (LL4Ø)	L-28H
Chicago App/Dep Con 133.1 285.6	
Glasgow Industrial, MT (Ø7MT)	H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
USAF Academy Bullseye Aux Airstrip, CO (CO9Ø)	L-10F
ASOS 118.325	
West Kentucky Airpark, KY (5KY3)	L-16I
Memphis Center App/Dep Con 133.65 292.15	
William P Gwinn, FL (Ø6FA)	H-8I, L-23C
Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z‡)	
Gnd Con 121.65 279.25	
CANADA	
FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX)	H-1B, L-12F
ATIS 119.8 (1500–0700Z‡)	11-15, 1-121
Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500–0700Z‡) Gnd Con 121.8	
MF 119.4 295.0 (0700–1500Z‡) (Shape irregular to 4500')	H-11B
Amos/Magny, QC (CYEY)	H-IIB
Montreal Center App/Dep Con 125.9	
Atikokan Muni, ON (CYIB)	L-14I
MF 122.3 (5 NM to 4500' No ground station)	
Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31D
AWOS 122.55 (Pvt)	
Toronto Center App/Dep Con 124.025	
Bar River, ON (CPF2)	L-31C
Toronto Center App/Dep Con 132.65	
Bathurst, NB (CZBF)	L-32J
Moncton Center App/Dep Con 134.25	
Boundary Bay, BC (CZBB)	H-1B, L-1E
ATIS 125.5 (1500-0700Z‡)	
Vancouver App/Dep Con 132.3 363.8	
Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z‡) Gnd Con 124.3	
MF 118.1 (0700-1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape	
irregular to 2500'.)	
Brampton, ON (CNC3)	L-31D
Toronto Trml App/Dep Con 119.3 253.1	
Brandon Muni, MB (CYBR)	H-2H
Winnipeg Center App/Dep Con 132.25 285.4	
MF 122.1 (5 NM to 4000')	
Brantford, ON (CYFD)	L-31D
Toronto Trml App/Dep Con 128.27	
Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)	L-32G
Montreal Center App/Dep Con 134.675	
Bromont, QC (CZBM)	L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
Burlington Airpark, ON (CZBA)	L-31D
Toronto Center App/Dep Con 119.3 253.1	2 015
Castlegar, BC (CYCG)	H-1C
Vancouver Center App/Dep Con 134.2 227.3	11 10
MF 122.1 (5 NM to 6500')	
	H 100 11B I 31D
Centralia/James T. Fld Muni, ON (CYCE)	H-10G, 11B, L-31D
Toronto Center App/Dep Con 135.30	H 44E 1 201
Charlottetown, PE (CYYG)	H-11E, L-32J
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
Chatham-Kent, ON (CNZ3)	H-10G, L-30G
Cleveland Center App/Dep Con 132.25	

	CHART & PA
Collingwood, ON (CNY3)	H-11B, L-3
Toronto Center App/Dep Con 124.02	
Cornwall Rgnl, ON (CYCC)	L-3
Boston Center App/Dep Con 135.25 377.1	
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	11.445.1
Debert, NS (CCQ3)	H-11E, L-
Halifax Trml App/Dep Con 119.2	1
Digby, NS (CYID)	L-
Moncton Center App/Dep Con 123.9	
Downsview, ON (CYZD)	H-11B, L-3
Toronto Center App Con 133.4	
Toronto Center Dep Con 133.4	
MF 126.2 (1300–2300Z‡, 3 NM to 1700′)	
Drummondville, QC (CSC3)	L=3
Montreal Center App/Dep Con 132.35	
Earlton (Timiskaming Rgnl), ON (CYXR)	H-:
MF 122.0 (5 NM to 3800')	
AWOS 128.6	
Elliot Lake Muni, ON (CYEL)	L=3
Toronto Center App/Dep Con 135.4	
Fort Frances Muni, ON (CYAG)	L-:
Minneapolis Center App/Dep Con 120.9	
Fredericton Intl, NB (CYFC)	H-11E, L-
ATIS 127.55	
Moncton Center App/Dep Con 124.3 135.5 270.8	
Tower 119.0 (1200-2000Z, DT 1100-1900Z) Gnd Con 121.7 (Ltd hrs)	
MF 119.0 (2000–1200Z, DT 1900–1100Z 5 NM to 3500')	
Goderich, ON (CYGD)	H-11B, L-3
Toronto Center App/Dep 135.3 266.3	
Greenwood, NS (CYZX)	H-11E, L-
ATIS 128.85 244.3 (1100-0000Z‡)	
App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	
Grimshy Air Park, ON (CNZ8)	L-3
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater, NS (CYAW)	H-11E, L-
ATIS 129.175 (Ltd hrs)	
App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-
ATIS 121.0	111, 1
Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
	H-10H, 11B, L-
Apron Advisory 122.125	
Hamilton, ON (CYHM)	п-топ, ттв, ц-
Hamilton, ON (CYHM) ATIS 128.1	п-10п, 11в, L-
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0	n-10n, 11b, L-
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK)	
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡)	
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300′)	H-11C, L-31E,
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300′) Kitchener/Waterloo, ON (CYKF)	H-11C, L-31E,
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡)	H-11C, L-31E,
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275	H-11C, L-31E,
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8	H-11C, L-31E,
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275	H-11C, L-31E,
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300′) Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000′) Lachute, QC (CSE4)	H-11C, L-31E, H-11B, L-
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000')	H-11C, L-31E, H-11B, L-
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300′) Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000′) Lachute, QC (CSE4)	H-11C, L-31E, H-11B, L-
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3	H-11C, L-31E, H-11B, L-: L-:
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, DN (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	H-11C, L-31E, H-11B, L-: L-:
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ)	H-11C, L-31E, H-11B, L-: L-:
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300′) Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000′) Lachute, QC (CSE4) Montreal Center App Con 134.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-11C, L-31E, H-11B, L-: L-:
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6 Kingston, ON (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) MF 122.5 (1115–0400Z‡ 5 NM to 3300') Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 Langley, BC (CYNJ)	H-11C, L-31E, H-11B, L-3 L-3

CILITY NAME Leamington, ON (CLM2)	CHART & PANI
Cleveland Center App/Dep Con 132.45	
ethbridge, AB (CYQL)	H-1
ATIS 124.4 (1300-0545Z‡)	
Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	
indsay, ON (CNF4)	L-31E, L-32
Toronto Center App/Dep 134.25	
iverpool/South Shore Rgnl, NS (CYAU)	L-32
Moncton Center App/Dep Con 123.9	
ondon, ON (CYXU)	H-10G, 11E
ATIS 127.8 (1120-0345Z‡)	L-30G, 31
Toronto Center App/Dep 135.3 135.625	
Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9	
MF 119.4 (0345-1120Z‡ 5 NM to 3000')	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31
Toronto Center App/Dep 135.4 260.9	
Maniwaki, QC (CYMW)	L-32
Montreal Center App/Dep Con 126.57	
Mascouche, QC (CSK3)	L-32
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the	
N shore of Riviere des Milles-lles and 1 NM around Lac Agile Mascouche arpt.)	
Medicine Hat, AB (CYXH)	H-1
AWOS 124.875 (0345-1245Z‡)	
MF 122.2 (1245-0345Z‡ 5 NM to 5400')	
Aidland/Huronia, ON (CYEE)	L-31
Toronto Center App/Dep 124.025	
Miramichi, NB (CYCH)	H-11E, L-3
Moncton Center App/Dep Con 123.7	
Moncton/Greater Moncton Intl, NB (CYQM)	H-11E, L-3
ATIS 128.65	
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8	
Apron Advisory 122.075	
Mont-Laurier, QC (CSD4)	L-32
Montreal Center App/Dep Con 126.57	
Montreal Intl (Mirabel), QC (CYMX)	H-11C, 12K, L-32
ATIS 125.7	
Montreal Center App Con 124.65 132.85 268.3	
Montreal Dep Con 132.85	
MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32
ATIS 133.7	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	
Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075	
Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE)	
VFR Advisory 134.15	
Montreal/St-Hubert, QC (CYHU)	H-11C, L-32
ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9	
Montreal Center App/Dep Con 125.15 268.3	
St. Hubert Tower 118.4 (Apr–Oct 1045–0500Z‡, Nov–Mar 1045–0400Z)	
Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar	
0400–1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	
luskoka, ON (CYQA)	H-11B, L-31
AWOS 124.575	,
MF 122.3 (5 NM to 3900')	
lanaimo, BC (CYCD)	H-1B, L-:
Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	10, 1
lorth Bay, ON (CYYB)	H-11B, L31
ATIS 124.9 (1130–0300Z‡)	., 110, 10.
Toronto Center App/Dep 121.225 127.25	
MF 118.3 (1130–0330Z‡ 7 NM to 5000')	
	L-3:
Ishawa, ON (CYOO)	L-31
ATIS 125.675 (1130-0330Z‡)	
Toronto Trml App Con 133.4	

CILITY NAME	CHART & PANEL
Ottawa/Carp, ON (CYRP)	L-31E, 32F
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175 252.5	
Ottawa/Gatineau, QC (CYND)	H-11C, L-32G
Ottawa Trml App/Dep Con 127.7 128.175 252.5	
MF 122.3 (5 NM shape irregular to 2500')	
VFR Advisory Ottawa Trml 127.7	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-110
ATIS 121.15	
Ottawa App Con 135.15 Tower 118.8 120.1 341.3	
Gnd Con 121.9 Clnc Del 119.4	
Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-31D
Toronto Center App/Dep 132.575 290.6	
Pelee Island, ON (CYPT)	L-30F
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.2	
Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	
Penticton, BC (CYYF)	H-1B
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	
Peterborough, ON (CYPQ)	H-11B, L-31E, 32F
AWOS 126.925	
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-1D
Edmonton Center App/Dep Con 132.75 265.2	
Pitt Meadows, BC (CYPK)	L-1E
ATIS 125.0 (1500-0700Z‡)	
Vancouver Center App Con 128.6 352.7 (Outer)	
Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8	
Vancouver Center Dep Con 132.3 363.8 (South)	
MF 126.3 (0700-1500Z‡) (3NM to 2500')	
Quebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32H
ATIS 134.6	
AWOS 122.025 (Pvt)	
Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8	
(185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6	
Gnd Con 121.9 250.0	
Riviere Du Loup, QC (CYRI)	H-11D
AWOS 122.025 (Pvt)	11 110
Montreal Center App/Dep Con 125.1 299.6	
Rouyn Noranda, QC (CYUY)	H–11B
Montreal Center App/Dep Con 125.9	11-110
MF 122.2 (5 NM to 4000')	
	H 11E I 22I
Saint John, NB (CYSJ)	H-11E, L-32J
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	U 400 44B L 005
Sarnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-30F
Toronto Center 134.375	
Sault Ste Marie, ON (CYAM)	H-2K, L-31B
ATIS 133.05 (1300-0100Z‡)	
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300-0100Z‡) Gnd Con 121.7	
MF 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000')	
Sherbrooke, QC (CYAM)	H-11D, L-32F
AWOS 126.25	
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	
South Renfrew Muni, ON (CNP3)	L-31E, 32F
Montreal Center App/Dep 124.275	
Southport, MB (CYPG)	H-2H
ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays)	
Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays)	
Gnd Con 121.7 275.8	

CILITY NAME Springwater Barrie Airpark, ON (CNA3)	CHART & PANEL
	L-31L
Toronto Center App/Dep Con 124.025 St. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-31E
ATIS 128.525 (1215–0200Z‡)	11–1011, 110, 1–011
Toronto Trml App/Dep Con 133.4 253.1	
MF 123.25 (1215–0200Z‡ 5 NM to 3300′)	
St. Frederic, QC (CSZ4)	L-32H
Montreal Center App/Dep Con 135.025 270.9	
St. Georges, QC (CYSG)	H-32H, L-11D
Montreal Center App/Dep Con 132.35	
MF 122.15 (5 NM 3900' ASL)	
St. Jean, QC (CYJN)	L-32G
Montreal Center App/Dep Con 125.15 268.3	
Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡)	
Gnd Con 121.7	
Sudbury, ON (CYSB)	H-31B, 10G, L-31D
ATIS 127.4	
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000')	
Summerside, PE (CYSU)	H-11E, L-32J
AWOS 122.55 (Pvt)	
Moncton Center App/Dep Con 124.4 384.8	
hunder Bay, ON (CYQT)	H–2J, L–14.
ATIS 128.8 (1100-0400Z‡)	
Winnipeg Center App/Dep Con 132.125 (0400–1100Z‡)	
Tower 118.1 (1100–0400Z‡) Gnd Con 121.9	
App/Dep 119.2 MF 118.1 (0400–1100Z‡ 5 NM to 4000′)	
immins, ON (CYTS)	H-11E
ATIS 124.95 (1000–0500Z‡)	
Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	
Foronto/Buttonville Muni, ON (CYKZ)	L-31E
ATIS 127.1 (1200–0400Z‡)	
Toronto Center App Con 133.4 Toronto Center Dep Con 133.4	
Tower 124.8 119.9 (1200–0400Z‡) Gnd Con 121.8	
MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500') [foronto/City Centre, ON (CYTZ)]	L-31E
ATIS 133.6 (1130–0400Z‡)	L-31E
App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	
Foronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-31D
ATIS 120.825	11-11B, L-31B
App Con 124.475 125.4 132.8 Dep Con 127.575 128.8	
Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9	
Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4	
renton, ON (CYTR)	H-11C, L-31E, 32F
ATIS 135.45 257.7	11 110, 2 012, 021
App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	
Cinc Del 124.35 286.4	
Frenton/Mountain View, ON (CPZ3)	H-11C, L-31E, 32F
Trenton Mil Advisory 268.0	110, 2 012, 02.
rois-Rivieres, QC (CYRQ)	H-11C, L-32H
Montreal Center App/Dep Con 128.225 229.2	,
MF 123.0 (5 NM to 3200')	
/al-D'or, QC (CYVO)	H-11E
Montreal Center App/Dep Con 125.9 308.3	
MF 118.5 (1030–0325Z‡ 5 NM to 4000′)	
lancouver Intl, BC (CYVR)	H-1B, L-1E
ATIS 124.6 124.75	,
App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)	
Dep Con 126.125 (north) 132.3 (south) 363.8	
Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6	

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CILITY NAME	CHART & PAN
Victoria Intl, BC (CYYJ)	H-1B, L-
ATIS 118.8 (1400–0800Z‡)	
App Con 125.95 308.4 Dep Con 133.85 308.4	
Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400–0800Z‡ 0T ctc Kamloops 119.7)	
Cinc Del 126.4 (1400–0800Z‡ 01 etc Rainioups 119.7)	
Victoriaville, QC (CSR3)	L-3
Montreal Center App Con 132.35	L 0
Waterville/Kings Co Muni, NS (CCW3)	L-3
Greenwood Trml App/Dep Con 120.6 335.9	
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-3
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYQG)	H–10G, L-
ATIS 134.5 (1130-0330Z‡)	
Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2	
Tower 124.7 (1130-0330Z‡) Gnd Con 121.7	
MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3	
Yarmouth, NS (CYQI)	H-11E, L-3
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	
MEXICO	
CILITY NAME	CHART & PA
Abraham Gonzalez Intl (MMCS)	H–4K, L-
Juarez App Con 119.9 Juarez Tower 118.9	
Del Norte Intl (MMAN)	H-7B, L-2
ATIS 127.55 (1300-0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Durango Intl (MMDO)	H-
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
General Abelardo L Rodriguez Intl (MMTJ)	H–4H, L–
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35	
Tijuana Info 132.1	
General Lucio Blanco Intl (MMRX)	H-7B, L-2
Reynosa App Con 118.8 Reynosa Tower 118.8	
General Mariano Escobedo Intl (MMMY)	H-7B, L-2
ATIS 127.7	
Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	L
General R Fierro Villalobos Intl (MMCU) ATIS 127.9	Ŀ
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML)	H-4H, L-4J.
ATIS 127.6	11-411, L-43,
Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	
	H-7C, L-2
**	11-7 C, L-2
General Servando Canales (MMMA)	
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	ш
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO)	H-
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	
Matamoros App Con 118.0 Matamoros Tower 118.0	H-7B, L-2
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	

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In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🖏, 👽, 😉
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "●" beside the name. A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ●*
 To activate lights use frequency indicated in the communication section of the chart with a or the appropriate lighting system identification e.g., UNICOM 122.8 ●, ▲, ▲

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KEY MIKE	FUNCTION
within 5 seconds	Highest intensity available

5 times within 5 seconds Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

FAA procedure amendment number Amdt 11A 99365 Date of latest change Orig 00365

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

7 times

09071 LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM Runways Helicopter Alighting Areas (H) [H] (A) [H] Displaced Stopways, Taxiways, Hard Other Than Negative Symbols used to identify Copter Procedures Hard Surface Parking Areas, Threshold Surface landing point...... Water Runways Runway Threshold elevation.....THRE 123 $x \times x$ Runway TDZ elevation.....TDZE 123 Closed Closed Under Meta Taxiway Runway Construction Surface (shown when runway slope is greater than ARRESTING GEAR: Specific arresting gear systems; or equal to 0.3%) e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to NOTE: Runway Slope measured to midpoint on runways appropriate DOD publications. 8000 feet or longer. uni-directional bi-directional ₹ Jet Barrier U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of ARRESTING SYSTEM approximately 7 feet and proximity to edge of runway may create an obstruction for some types REFERENCE FEATURES of aircraft. Buildings..... Approach light symbols are shown in the Tanks..... Flight Information Handbook. Obstructions....... Airport diagram scales are variable. Runway True/magnetic North orientation may vary from Radar Reflectors diagram to diagram Control Tower #..... Coordinate values are shown in 1 or ½ minute Hot Spot increments. They are further broken down into 6 second ticks, within each 1 minute increments. # When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and Positional accuracy within ±600 feet unless otherwise further identified as TWR. noted on the chart. Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds All new and revised airport diagrams are shown referif any) but excluding areas designated as stopways. enced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible A D symbol is shown to indicate runway declared with local coordinates published in FLIP. (Foreign Only) distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information. Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U Rwy 2 ldg 8000' **FIELD** Runway Displaced Threshold FIFV Slope Runway 174 **FMAS** Identification 1200 X 200 0.7% UP-9000 X 200 1000 X 200 023.2° () Arresting System Operations FIFV Runway End (in feet) Runway Dimensions Runway Heading Elevation 164 Stopway Dimensions (in feet) (Magnetic) (in feet) SCOPE

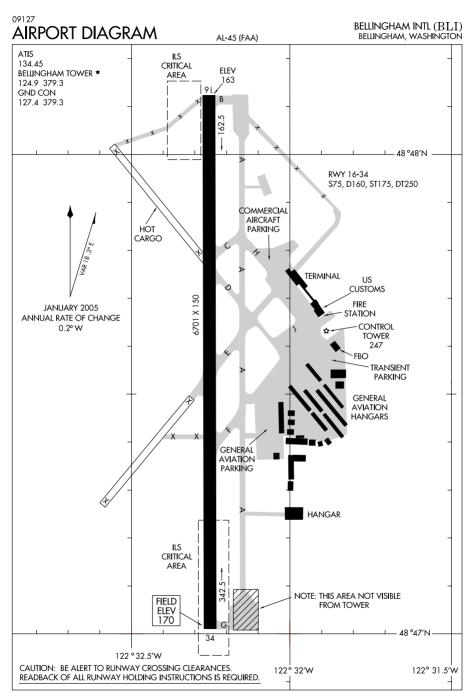
Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

AIRPORT DIAGRAMS HOT SPOTS

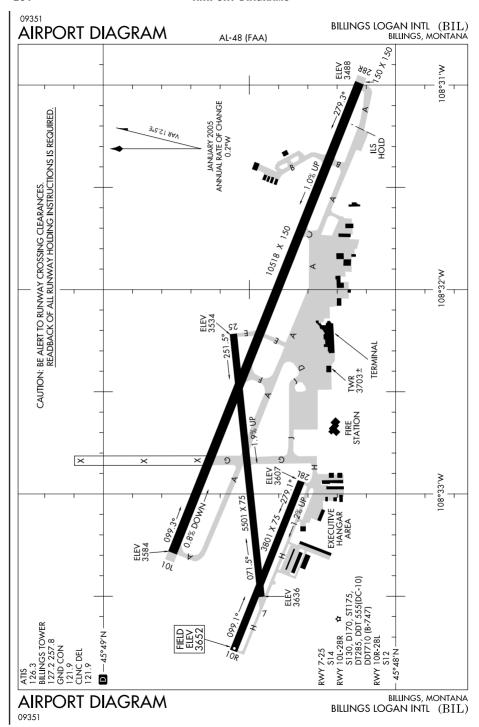
An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary. A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HOT¹", "HOT²", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION			
IDAHO					
IDAHO FALLS IDAHO FALLS RGNL (IDA)	HOT ¹	Pilots should use caution and look carefully for			
IDAHU FALLS KGINL (IDA)	нот	runway hold line when using Twy C. Rwy 17–35 does not have runway edge markings and can be mistaken for a twy.			
	HOT ²	Aircraft departing Rwy 20 often miss left turn on A-1 and taxi past A-1 entrance. Do not mistake Rwy 20 such hold line on Twy A for entrance to Rwy 20.			
	HOT ³	Do not cross hold line for Rwy 17 without authorization.			
LEWISTON LEWISTON-NEZ PERCE CO (LWS)	HOT ¹	Twy C and Twy G intersection close proximity to Rwy 12-30.			
	HOT ²	Twy G between Rwy 8–26 and Rwy 30 thld. Short distance between rwys.			
	MONTANA				
MISSOULA MISSOULA INTL (MSO)	HOT ¹	Intersection of Twy A and Twy F. Critical turn for eastbound ramp access.			
	OREGON				
PORTLAND PORTLAND INTL (PDX)	HOT ¹	Limited wing-tip clearance at taxiway convergence point. Pilots taxiing eastbound on taxiway B should hold at the taxiway holding position marking when directed by ATC.			
	WASHINGTO	N			
EVERETT SNOHOMISH COUNTY (PAINE FIELD) PAE	HOT ¹	Intersection of Twy D1, Twy A5, and Rwy 11–29, Rwy in close proximity to ramp areas.			
	HOT ²	Rwy 29 thld in close proximity to ramp areas.			
0515715	HOT ³	Twy A between Twy A8 and Twy A9 not visible from ATCT.			
SEATTLE BOEING FIELD/KING COUNTY INTL (BFI)	HOT ¹	Twy Z restricted access area.			
	HOT ²	Rwy 13R–31L and Twy A9. Wrong rwy departure risk.			
SEATTLE SEATTLE-TACOMA INTL (SEA)	HOT ¹	Aircraft landing Rwy 34C and exiting Twy H who turn right on Twy J must clear the Rwy 34C hold bar completely, while using vigilance not to cross the hold bar for Rwy 34R (34C–34R hold bar separation distance 189 feet).			

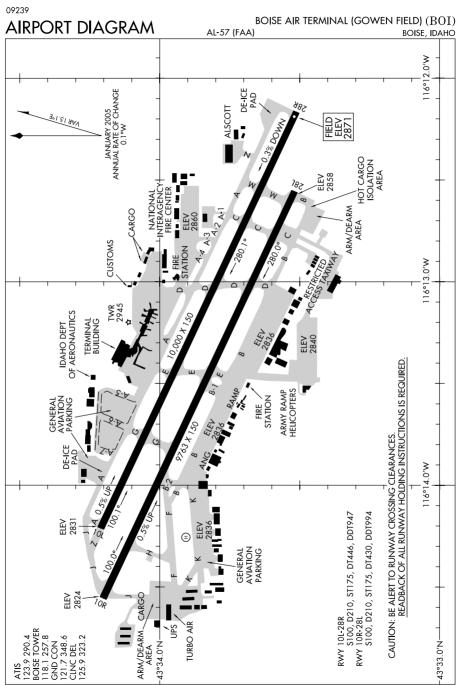


AIRPORT DIAGRAM

BELLINGHAM, WASHINGTON BELLINGHAM INTL (BLI)

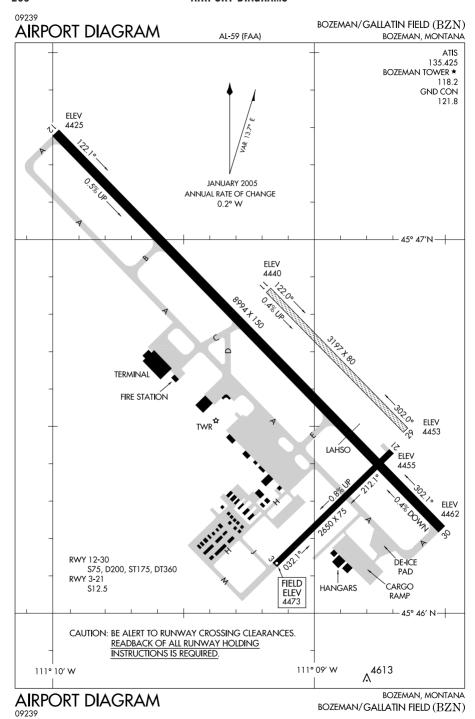


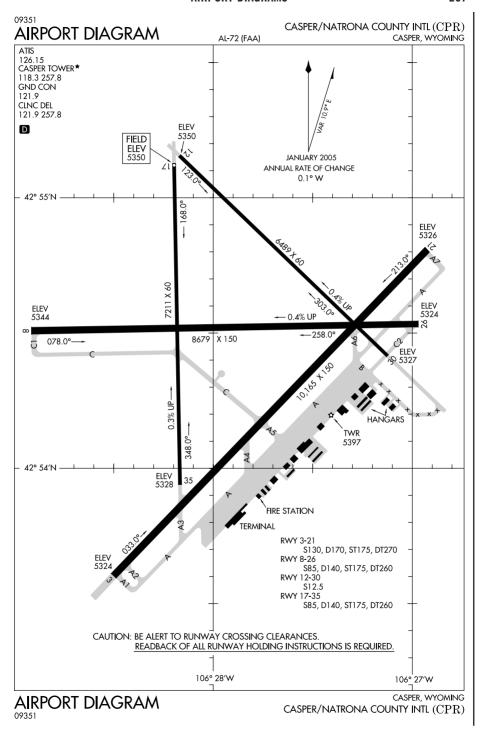
NW, 17 DEC 2009 to 11 FEB 2010

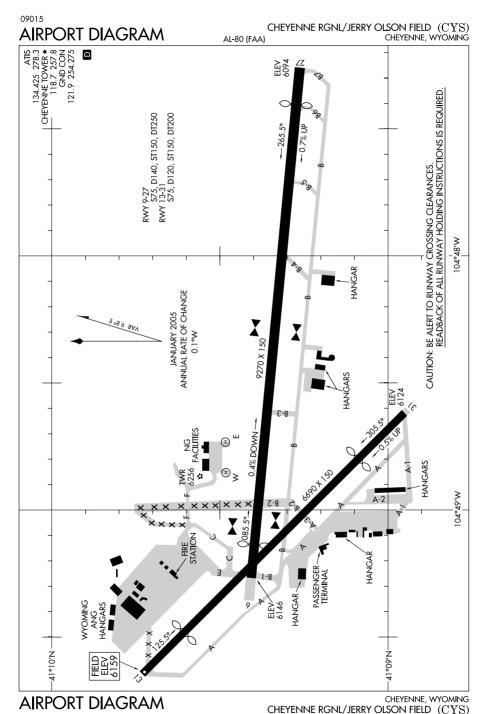


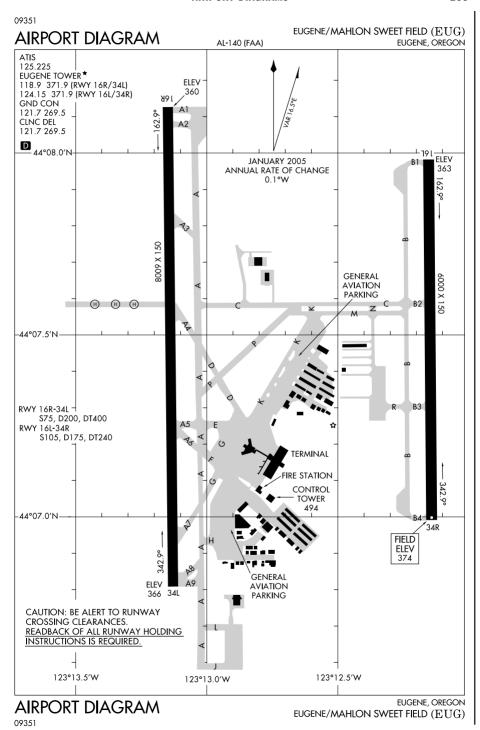
 $\begin{array}{c} \text{BOISE, IDAHO} \\ \text{BOISE AIR TERMINAL (GOWEN FIELD) } \end{array}$

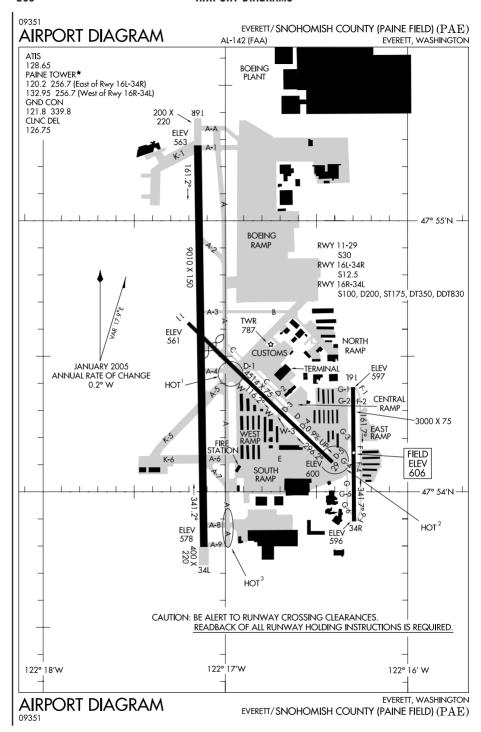
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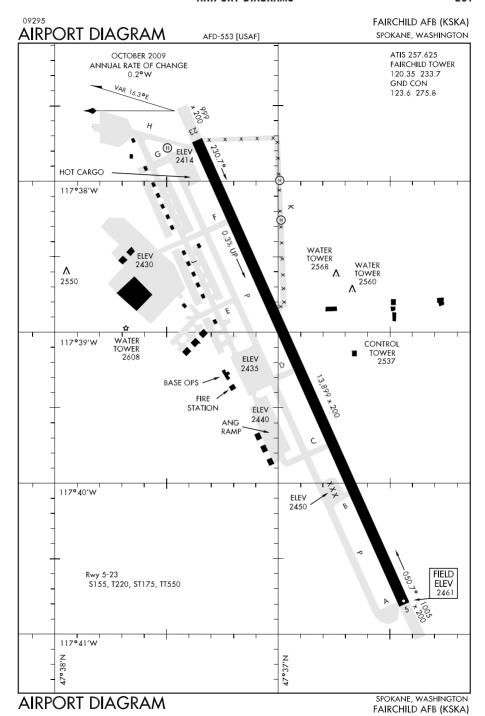


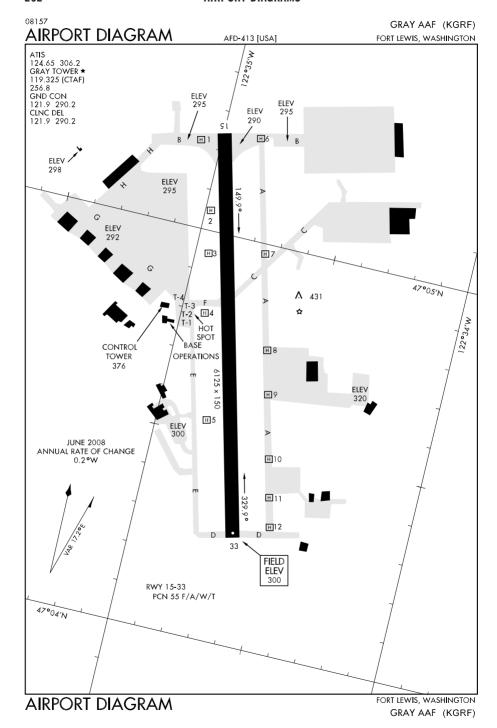


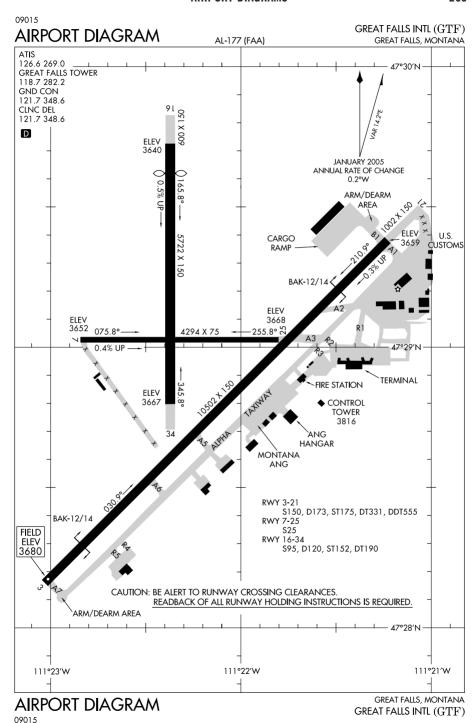


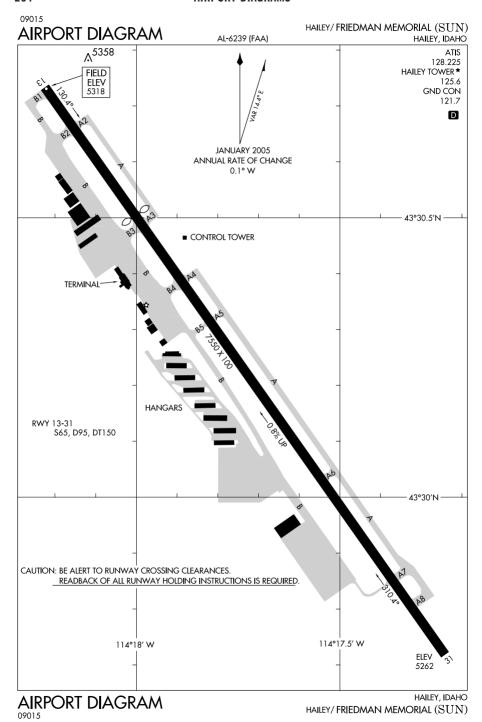


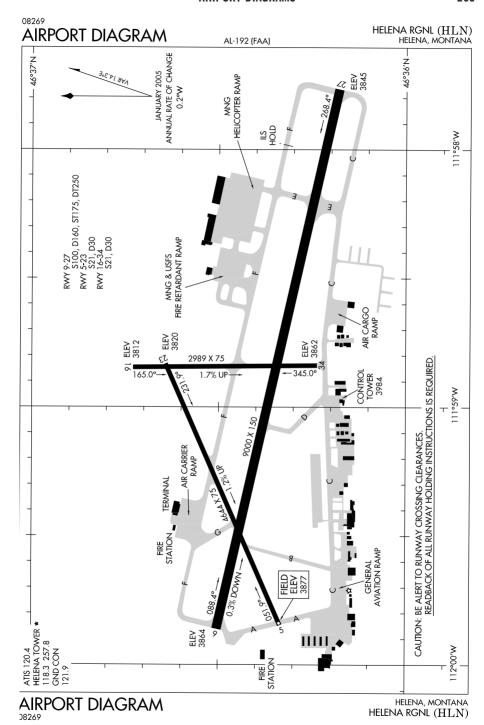
NW, 17 DEC 2009 to 11 FEB 2010

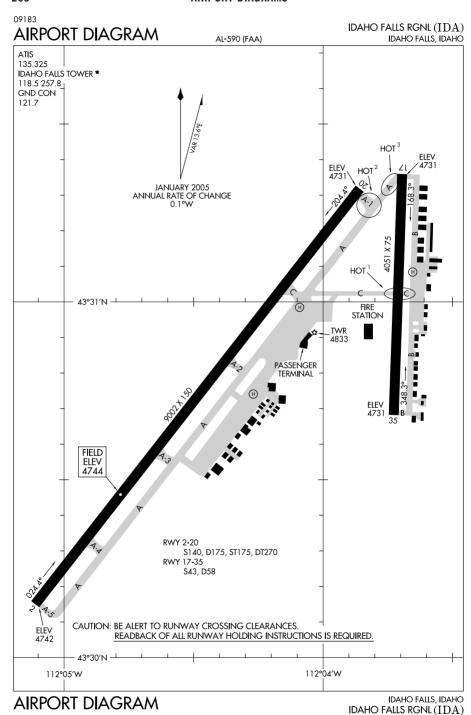


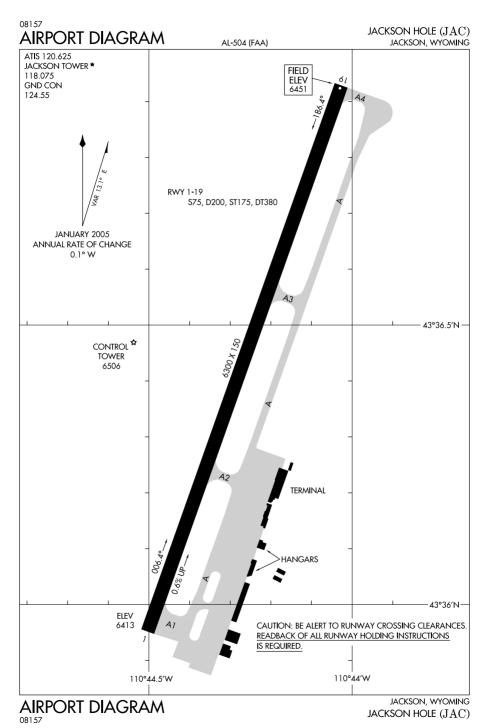


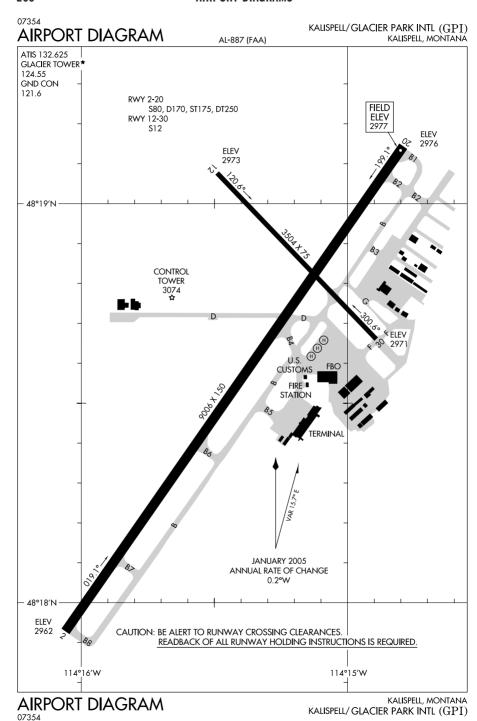




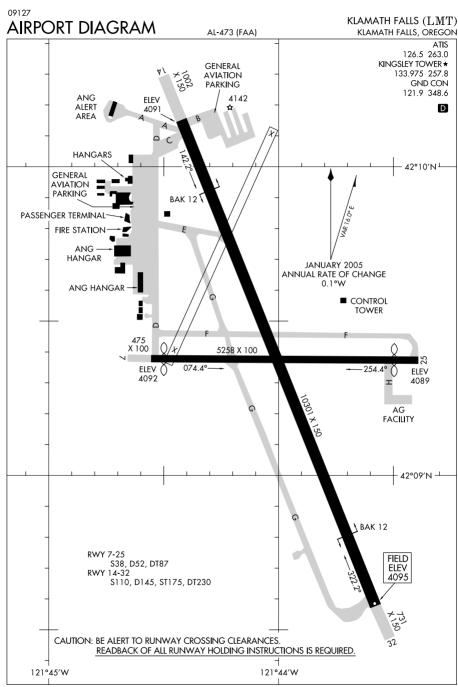




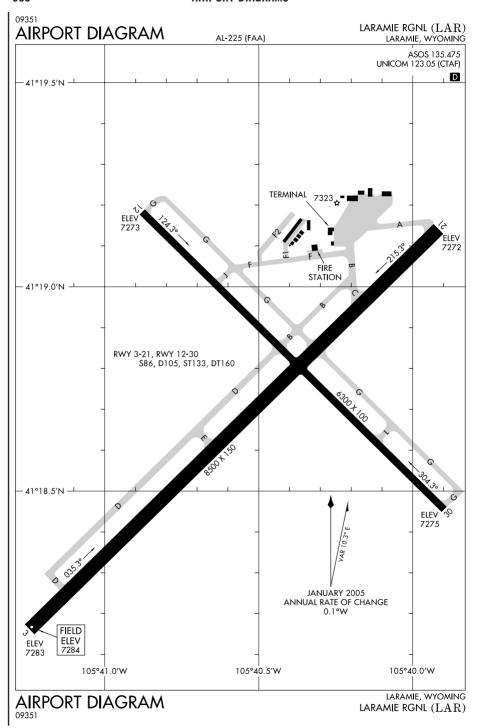




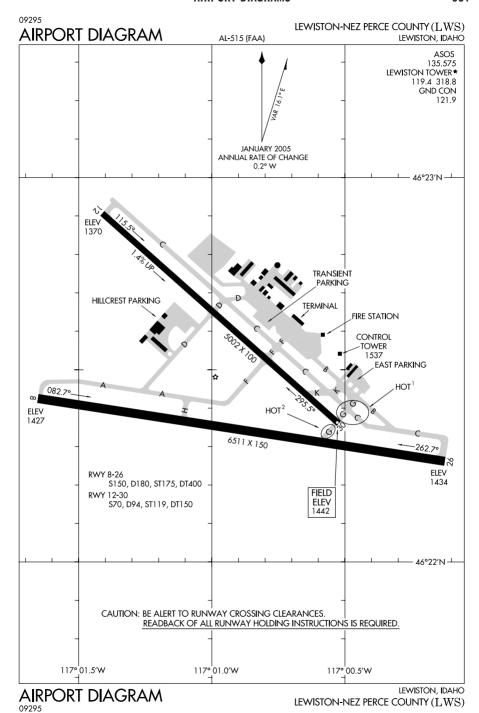
NW, 17 DEC 2009 to 11 FEB 2010

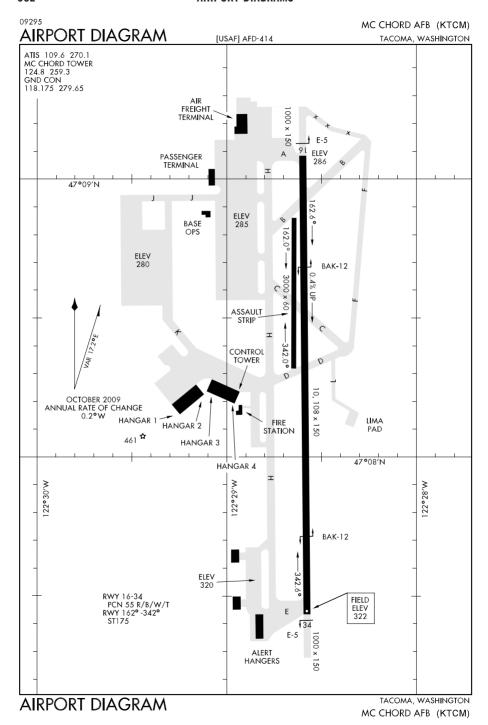


KLAMATH FALLS, OREGON KLAMATH FALLS $(LMT)\,$

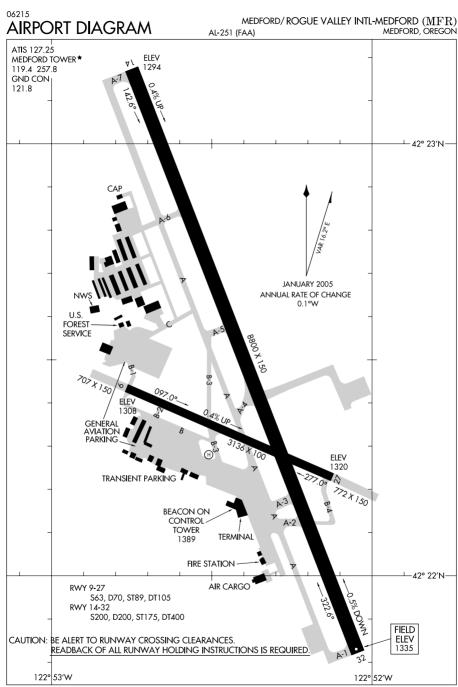


NW, 17 DEC 2009 to 11 FEB 2010

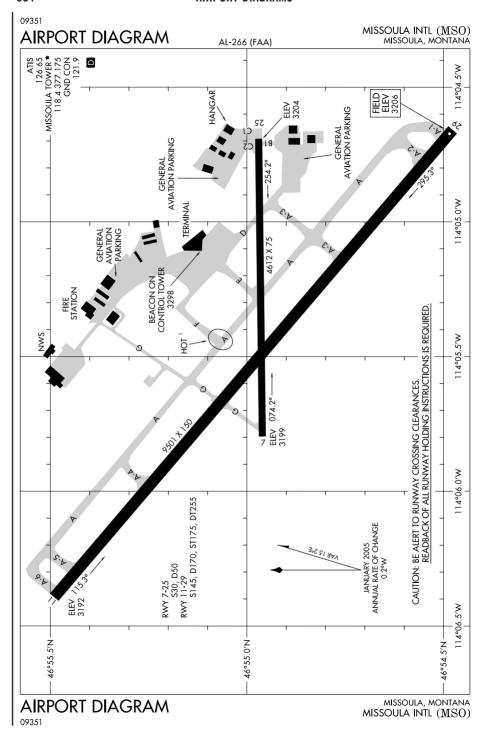




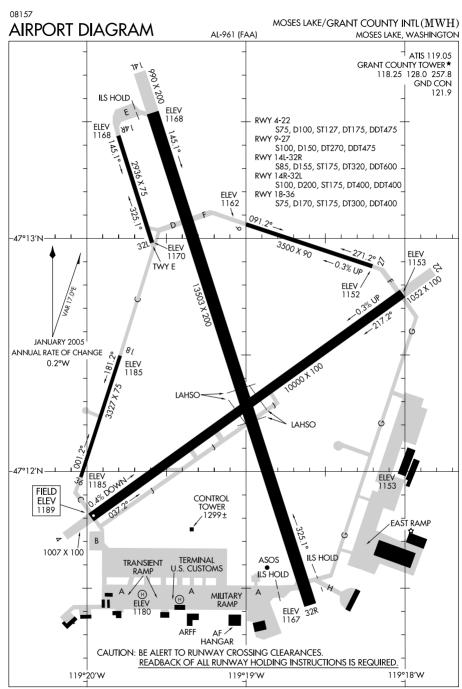
NW, 17 DEC 2009 to 11 FEB 2010



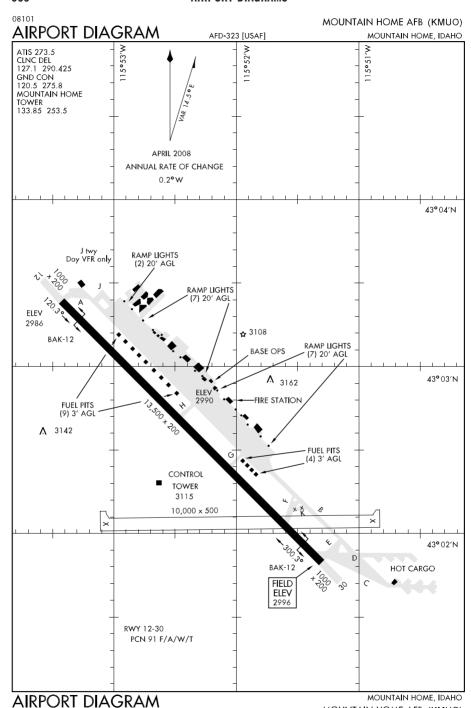
 $\begin{array}{c} \text{MEDFORD, OREGON} \\ \text{MEDFORD/ROGUE VALLEY INTL-MEDFORD } (MFR) \end{array}$



NW, 17 DEC 2009 to 11 FEB 2010

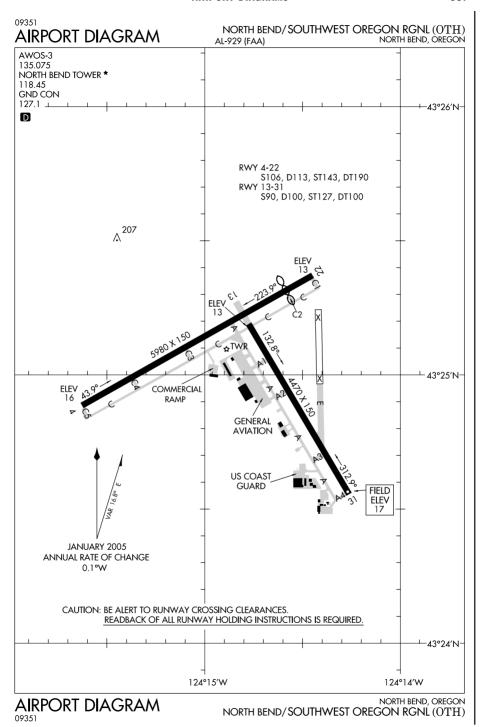


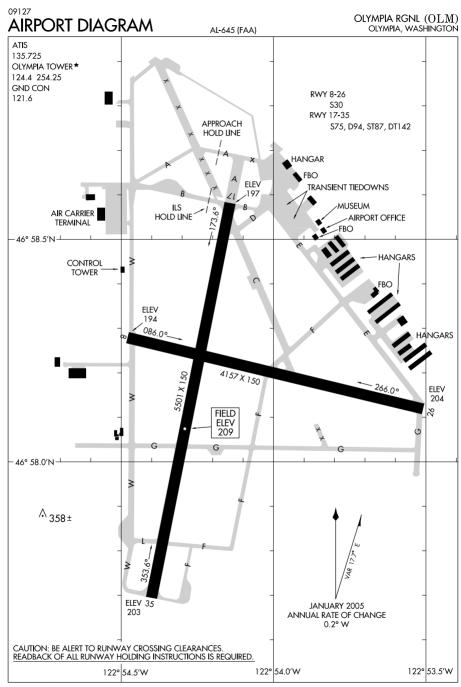
 $\label{eq:moseslake} \text{Moses lake, washington} \\ \text{Moses lake/grant county intl} \left(\underline{MWH} \right)$



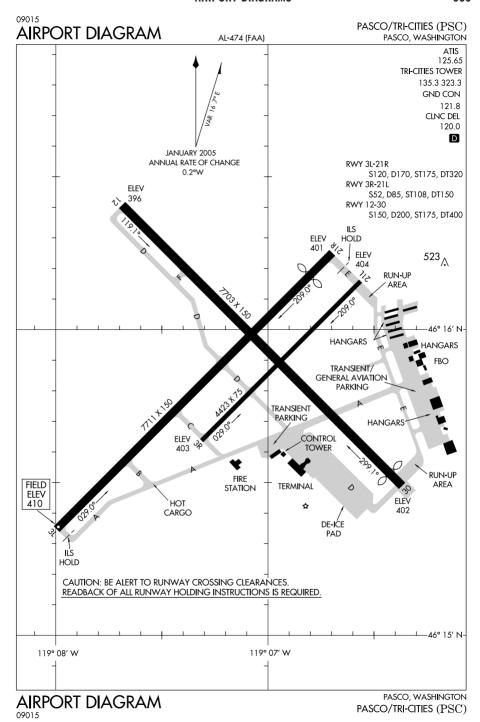
NW, 17 DEC 2009 to 11 FEB 2010

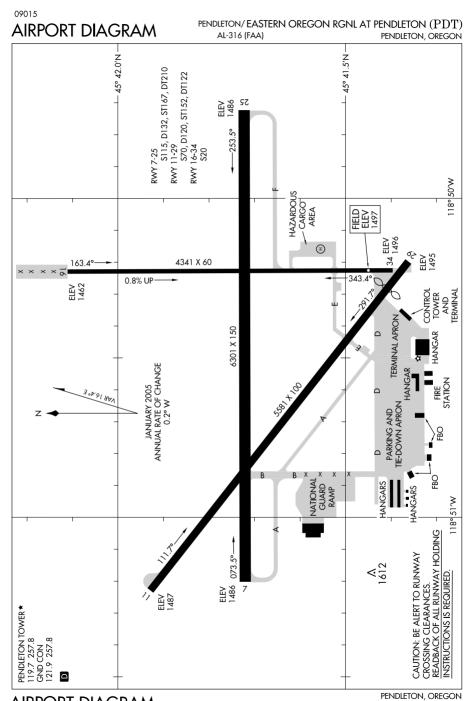
MOUNTAIN HOME AFB (KMUO)



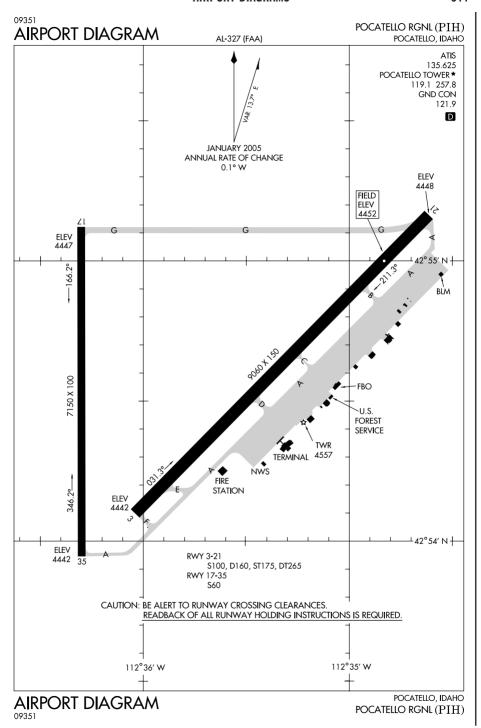


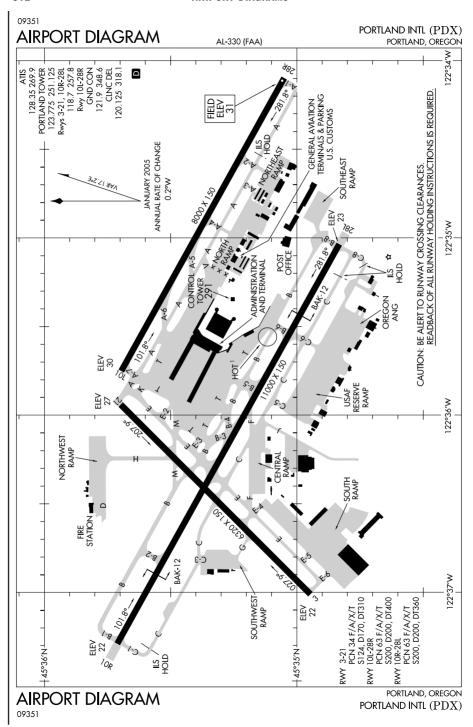
OLYMPIA, WASHINGTON OLYMPIA RGNL (OLM)



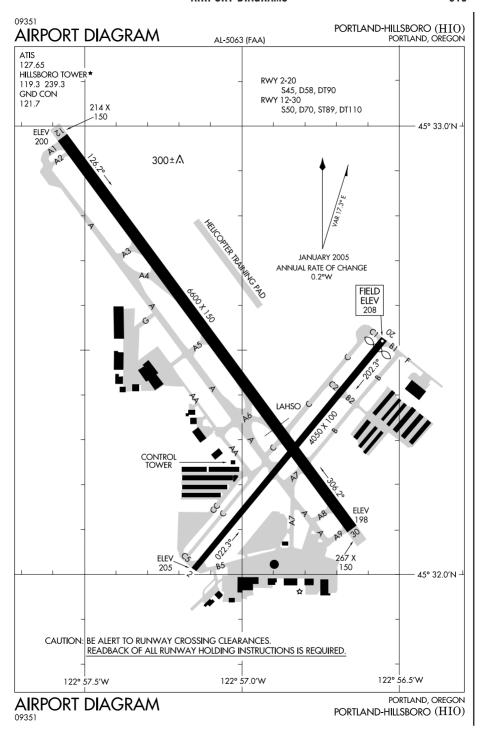


PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

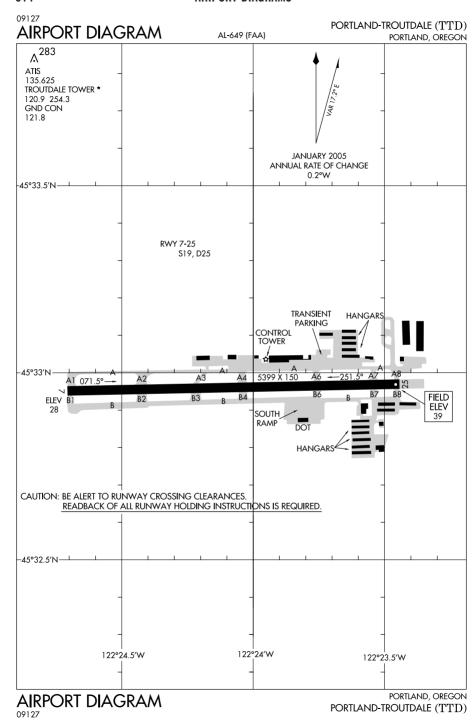


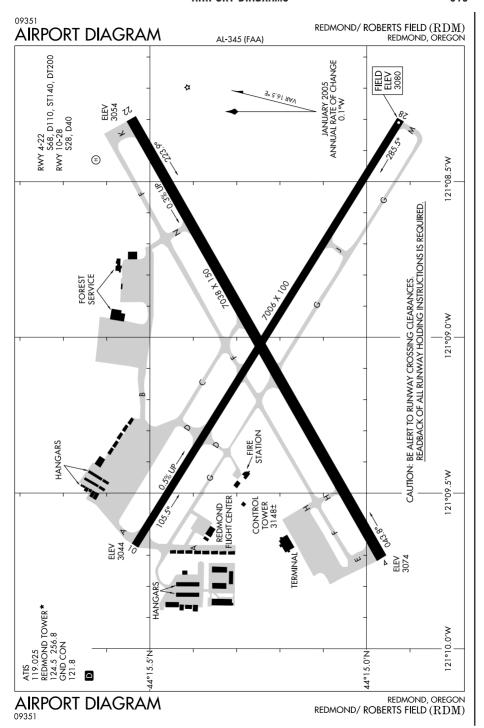


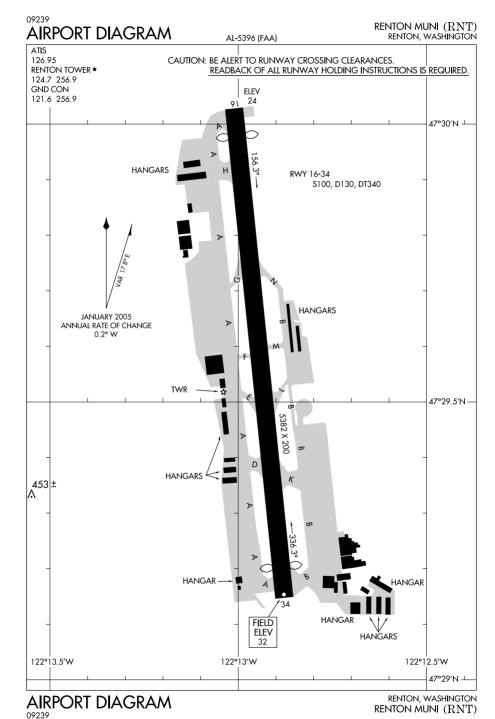
NW, 17 DEC 2009 to 11 FEB 2010

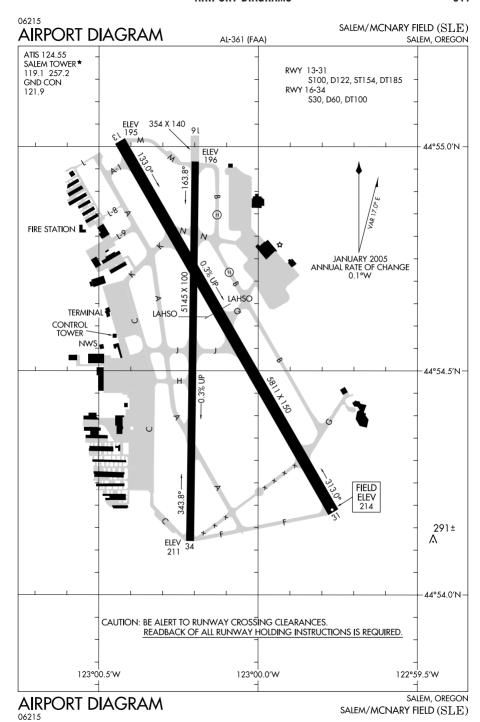


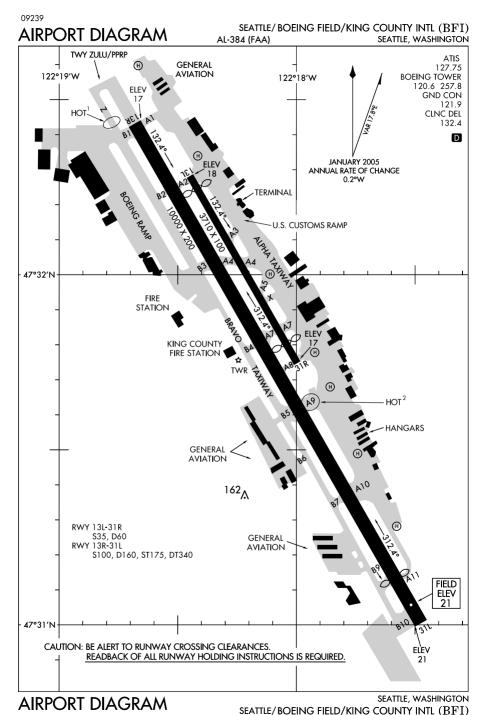
NW, 17 DEC 2009 to 11 FEB 2010

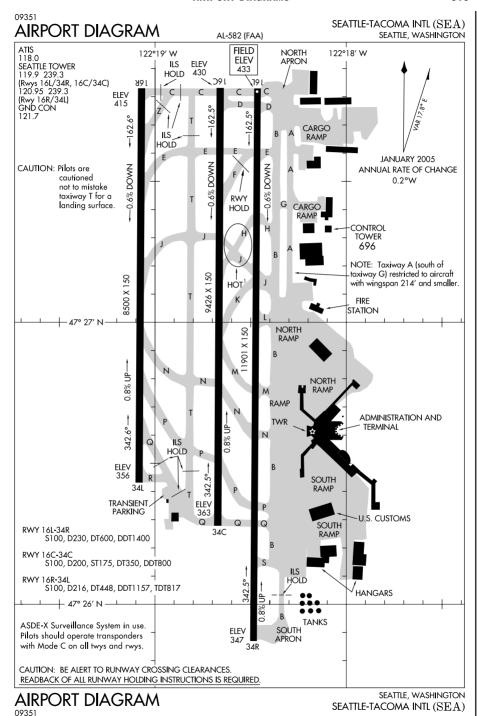


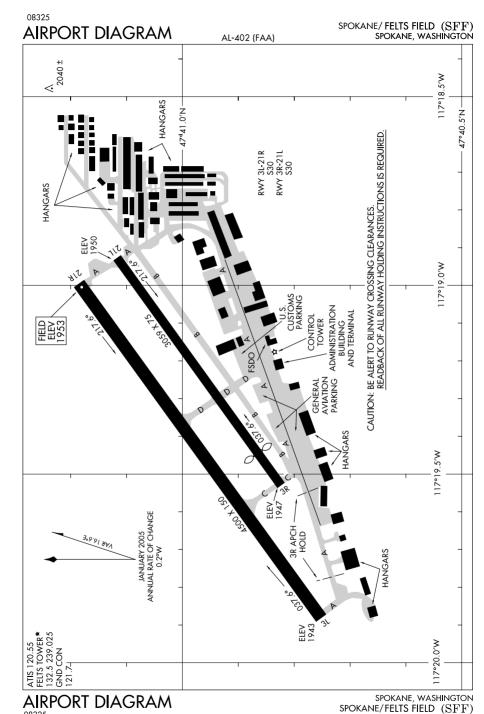


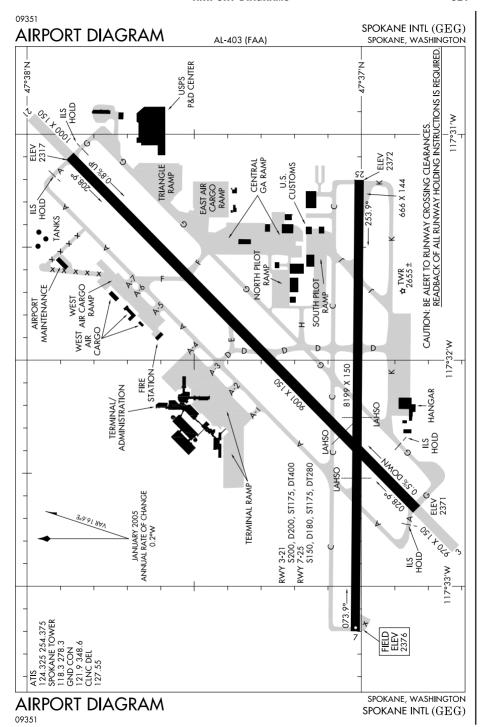


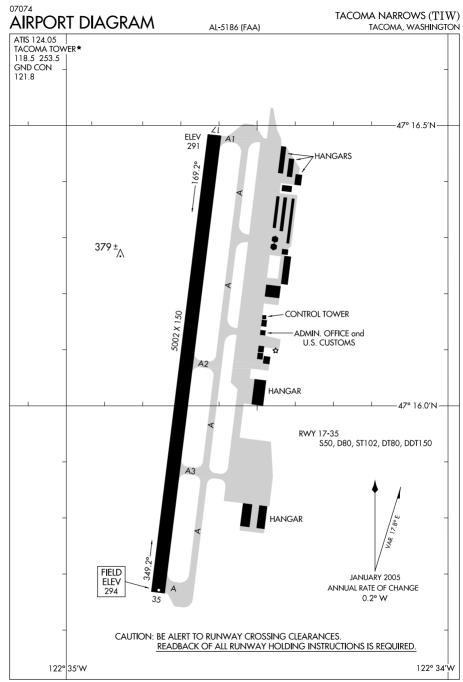




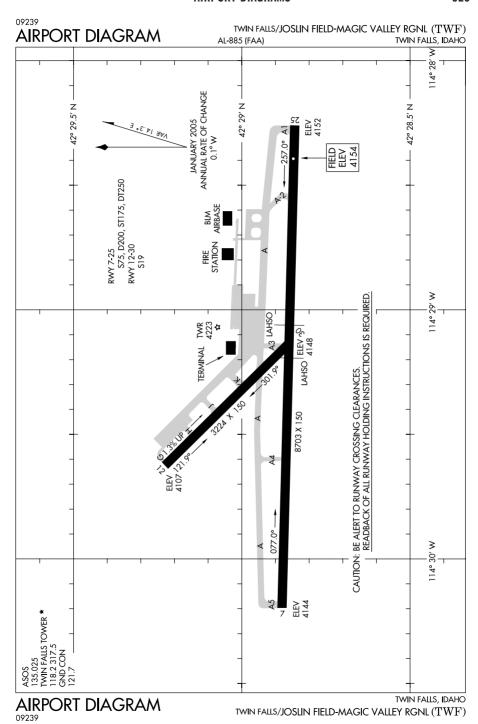




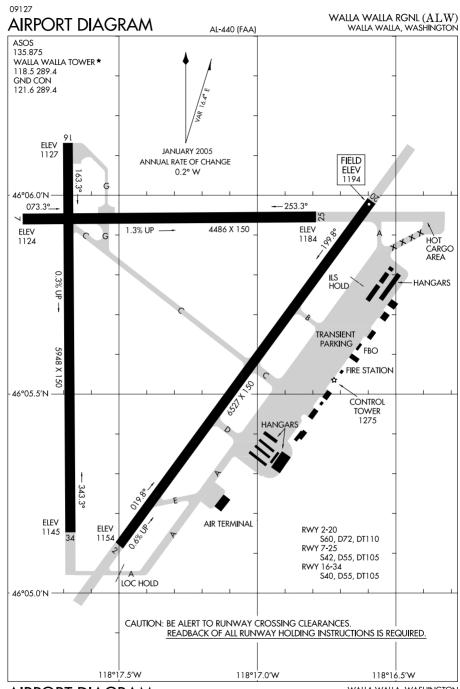




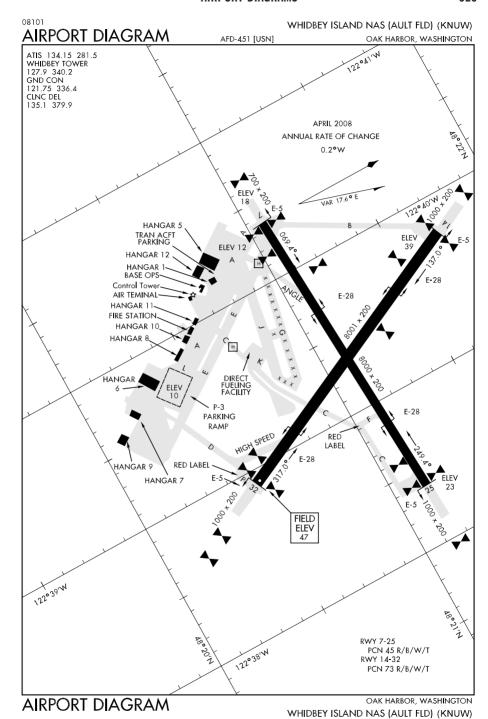
TACOMA, WASHINGTON TACOMA NARROWS (TIW)

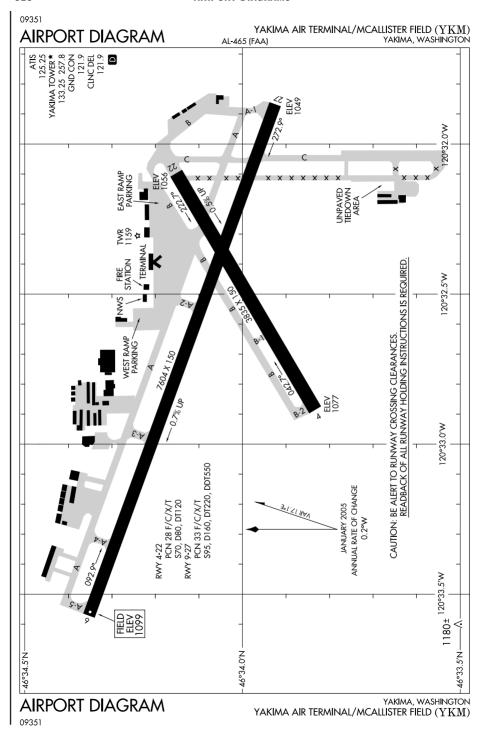


NW, 17 DEC 2009 to 11 FEB 2010



walla walla, washington walla walla rgnl $(A\,L\,W)$





NW, 17 DEC 2009 to 11 FEB 2010

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